DSC-H7/H9

SERVICE MANUAL

LEVEL 2

Ver 1.0 2007.04
Revision History

How to use
Acrobat Reader

Internal memory
ON BOARD

Photo: DSC-H7 Black Model

US Model
Canadian Model
AEP Model
UK Model
E Model
Australian Model
Hong Kong Model
Chinese Model
Korea Model
Argentine Model
Brazilian Model
Tourist Model
Japanese Model

Link

SPECIFICATIONS	BLOCK DIAGRAMS	PRINTED WIRING BOARDS
SERVICE NOTE	FRAME SCHEMATIC DIAGRAMS	REPAIR PARTS LIST
DISASSEMBLY	SCHEMATIC DIAGRAMS	

- Precaution on Replacing the SY-177 Board

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

DIGITAL STILL CAMERA

SONY®

DSC-H7/H9_L2
9-852-203-31

Sony EMCS Co.

2007D0200-1

Published by Kohda TEC

Self Diagnosis Supported model

Cyber-shot

MEMORY STICK ™

SPECIFICATIONS

Camera

[System]

Image device: 7.18 mm (1/2.5 type) color CCD, Primary color filter
Total pixel number of camera:
Approx. 8 286 000 pixels
Effective pixel number of camera:
Approx. 8 083 000 pixels
Lens: Carl Zeiss Vario-Tessar 15× zoom lens f =5.2 – 78 mm (31 – 465 mm when converted to a 35 mm still camera) F2.7 – 4.5
Exposure control: Automatic exposure, Shutter speed priority, Aperture priority, Manual exposure, Scene Selection (9 modes)
White balance: Automatic, Daylight, Cloudy, Fluorescent 1,2,3, Incandescent, Flash, One push
File format (DCF compliant):
Still images: Exif Ver. 2.21 JPEG compliant, DPOF compatible
Movies: MPEG1 compliant (Monaural)
Recording media: Internal Memory (approx. 31 MB), “Memory Stick Duo”
Flash: Flash range (ISO sensitivity (Recommended exposure value) set to ISOAUTO): approx. 0.2 to 9.8 m (7 7/8 inches to 32 feet 1 7/8 inches) (W)/ approx. 1.2 to 6.0 m (3 feet 11 1/4 inches to 19 feet 8 1/4 inches) (T)
Viewfinder: Electric viewfinder (color)

[Input and Output connectors]

Multi connector: Video output
Audio output (Monaural)
USB communication
USB communication:
Hi-Speed USB (USB 2.0 compliant)

[LCD screen]

LCD panel: DSC-H9: 7.5 cm (3.0 type) TFT drive
DSC-H7: 6.2 cm (2.5 type) TFT drive
Total number of dots:
DSC-H9: 230 400 (960 × 240) dots
DSC-H7: 115 200 (480 °— 240) dots

[Finder]

Panel: 0.5 cm (0.2 type) color
Total number of dots:
Approx. 200 000 dots equivalent

[Power, general]

Power: Rechargeable battery pack NP-BG1, 3.6 V
AC-LS5K AC Adaptor (not supplied), 4.2 V
Power consumption (during shooting with the LCD screen):
DSC-H9: 1.2 W
DSC-H7: 1.1 W
Operating temperature:
0 to 40°C (32 to 104°F)
Storage temperature:
–20 to +60°C (–4 to +140°F)
Dimensions: 109.5 × 83.4 × 85.7 mm (4 3/8 × 3 3/8 × 3 3/8 inches) (W/H/D, excluding protrusions) (for both DSC-H9 and DSC-H7)
Mass: DSC-H9: Approx. 546 g (1 lb 3.3 oz) (including NP-BG1 battery pack, shoulder strap, adaptor ring, lens hood and lens cap, etc.)
DSC-H7: Approx. 514 g (1 lb 2.1 oz) (including NP-BG1 battery pack, shoulder strap, adaptor ring, lens hood and lens cap, etc.)
Microphone: Monaural
Speaker: Monaural
Exif Print: Compatible
PRINT Image Matching III:
Compatible
PictBridge: Compatible

BC-CSG/BC-CSGB/BC-CSGC battery charger

Power requirements:
AC 100 V to 240 V, 50/60 Hz, 2 W (BC-CSG/BC-CSGC)/ 2.6 W (BC-CSGB)
Output voltage: DC 4.2 V, 0.25 A
Operating temperature:
0 to 40°C (32 to 104°F)
Storage temperature:
-20 to +60°C (–4 to +140°F)
Dimensions: Approx. 62 × 24 × 91 mm (2 1/2 × 31/32 × 3 5/8 inches) (W/H/D)
Mass: Approx. 75 g (2.7 oz)

Rechargeable battery pack NPBG1

Used battery: Lithium-ion battery
Maximum voltage: DC 4.2 V
Nominal voltage: DC 3.6 V
Capacity: 3.4 Wh (960 mAh)

Design and specifications are subject to change without notice.

Model information table

Model	DSC-H7/Silver	DSC-H7/Black	DSC-H9/Silver	DSC-H9/Black
Destination	US, CND, AEP, UK, E, AUS, HK, CH, KR, AR, J, JE	US, CND, AEP, UK, E, AUS, HK, CH, KR, J, JE	US, CND, AEP, UK, E, AUS, HK, CH, KR, JE	US, CND, AEP, UK, E, AUS, HK, CH, KR, AR, BR, JE
LCD	2.5 inch	2.5 inch	3.0 inch	3.0 inch
CK board	CK-180, CK-181	CK-180, CK-181	CK-179, CK-182	CK-179, CK-182
MS board	MS-364	MS-364	MS-366	MS-366
PL board	PL-046	PL-046	PL-047	PL-047
SW board	SW-500	SW-500	SW-499	SW-499

- Abbreviation
  AR : Argentine model
  AUS : Australian model
  BR : Brazilian model
  CH : Chinese model
  CND : Canadian model
  HK : Hong Kong model
  J : Japanese model
  JE : Tourist model
  KR : Korea model

CAUTION
Danger of explosion if battery is incorrectly replaced.
Replace only with the same or equivalent type.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈSES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPÉMENTS PUBLIÉS PAR SONY.

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer.

1. Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
3. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
4. Look for parts which, through functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
5. Check the B+ voltage to see it is at the values specified.
6. FLEXIBLE Circuit Board Repairing
   - Keep the temperature of the soldering iron around 270°C during repairing.
   - Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
   - Be careful not to apply force on the conductor when soldering or unsoldering.

Unleaded solder

Boards requiring use of unleaded solder are printed with the lead-free mark (LF) indicating the solder contains no lead.
(Caution: Some printed circuit boards may not come printed with the lead free mark due to their particular size.)

: LEAD FREE MARK

Unleaded solder has the following characteristics.

- Unleaded solder melts at a temperature about 40°C higher than ordinary solder.
  Ordinary soldering irons can be used but the iron tip has to be applied to the solder joint for a slightly longer time.
  Soldering irons using a temperature regulator should be set to about 350°C.
  Caution: The printed pattern (copper foil) may peel away if the heated tip is applied for too long, so be careful!
- Strong viscosity
  Unleaded solder is more viscous (sticky, less prone to flow) than ordinary solder so use caution not to let solder bridges occur such as on IC pins, etc.
- Usable with ordinary solder
  It is best to use only unleaded solder but unleaded solder may also be added to ordinary solder.

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ENGLISH JAPANESE

1. SERVICE NOTE

1-1. PRECAUTION ON REPLACING THE SY-177 BOARD

DESTINATION DATA

When you replace to the repairing board, the written destination data of repairing board also might be changed to original setting.
Refer to Service Manual ADJ, and perform “DESTINATION DATA WRITE”.

USB SERIAL No.

The set is shipped with a unique ID (USB Serial No.) written in it.
This ID has not been written in a new board for service, and therefore it must be entered after the board replacement.
Refer to Service ManualADJ, and perform “USB SERIAL No. INPUT”.

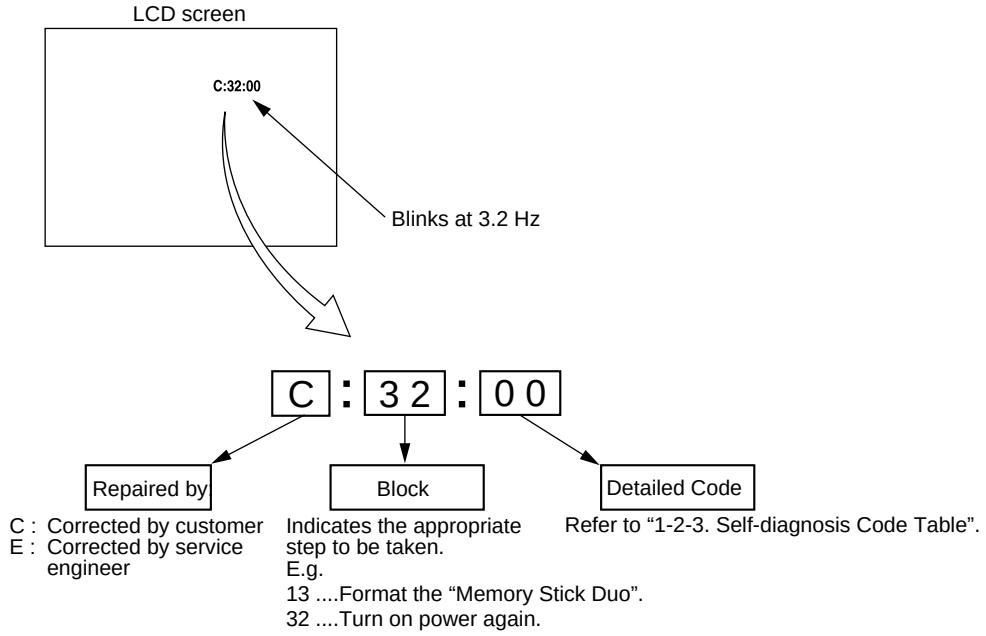
1-2. SELF-DIAGNOSIS FUNCTION

1-2-1. Self-diagnosis Function

When problems occur while the unit is operating, the self-diagnosis function starts working, and displays on the LCD screen what to do.
Details of the self-diagnosis functions are provided in the Instruction manual.

1-2-2. Self-diagnosis Display

When problems occur while the unit is operating, the LCD screen shows a 4-digit display consisting of an alphabet and numbers, which blinks at 3.2 Hz. This 5-character display indicates the “repaired by:”, “block” in which the problem occurred, and “detailed code” of the problem.



1-2-3. Self-diagnosis Code Table

Self-diagnosis Code					Symptom/State	Correction
Repaired by	Block Function		Detailed Code			
C	1	3	0	1	The internal memory has experienced a format error.	Format the internal memory.
					"Memory Stick Duo" is unformatted.	Format the "Memory Stick Duo".
					"Memory Stick Duo" is broken.	Insert a new "Memory Stick Duo".
					"Memory Stick Duo" type error	Insert a supported "Memory Stick Duo".
					The camera cannot read or write data on the "Memory Stick Duo".	Turn the power off and on again, or taking out and inserting the "Memory Stick Duo" several times.
C	3	2	0	1	Trouble with hardware	Turn the power off and on again.
E	6	1	0	1	Difficult to adjust focus (Cannot initialize focus)	Retry turn the power on by the power switch. If it does not recover, check the focus reset sensor of lens block (pin ㉗ of CN401 on the SY-177 board). If it is OK, check the focus motor drive IC (IC401 on the SY-177 board).
E	6	1	0	2	Zoom operations fault (Cannot initialize zoom lens.)	Retry turn the power on by the power switch. Check the zoom reset sensor of lens block (pin ⑰ of CN401 on the SY-177 board), if zooming is performed when the zoom button is operated. If it is OK, check the zoom motor drive IC (IC401 on the SY-177 board).
E	6	2	0	2	Abnormality of IC for steadyshot.	Check or replacement of the IC for steadyshot (IC503 on the SY-177 board).
E	6	2	1	0	Lens initializing failure.	Check or replacement of the IC for steadyshot (IC503 on the SY-177 board).
E	6	2	1	1	Lens overheating (PITCH).	Check the HALL element (PITCH) of optical image stabilizer (pin ㉟, ㊲ of CN401 on the SY-177 board). If it is OK, check PITCH angular velocity sensor (SE501 on the SY-177 board) peripheral circuits.
E	6	2	1	2	Lens overheating (YAW).	Check the HALL element (YAW) of optical image stabilizer (pin ㉚, ㉜ of CN401 on the SY-177 board). If it is OK, check YAW angular velocity sensor (SE502 on the SY-177 board) peripheral circuits.
E	6	2	2	0	Abnormality of thermistor.	Check the OIS temp sensor of optical image stabilizer (pin ㉞ of CN401 on the SY-177 board).
E	9	1	0	1	Abnormality when flash is being charged.	Checking of flash unit or replacement of flash unit. (Note)
E	9	2	0	0	Non-standard battery is used.	Use the compatible battery only.

Note: After repair, be sure to perform "1-3. PROCESS AFTER FIXING FLASH ERROR".

1-3. PROCESS AFTER FIXING FLASH ERROR

When "FLASH error" (Self-diagnosis Code E : 91 : 01) occurs, to prevent any abnormal situation caused by high voltage, setting of the flash is changed automatically to disabling charge and flash setting.
After fixing, this setting needs to be deactivated. Flash error code can be initialized by the operations on the HOME screen.

Method for Initializing the Flash Error Code

Initialize

Initializes the setting to the default setting. Even if you execute this function, the images stored in the internal memory are retained.

① Select [Initialize] with ▲/▼/◄/►, then press ●.
The message "Initialize all settings" appears.

② Select [OK] with ▲, then press ●.
The settings are reset to the default setting.

To cancel the resetting

Select [Cancel] in step ②, then press ●.

• Make sure that the power is not disconnected during resetting.

1-4. METHOD FOR COPYING OR ERASING THE DATA IN INTERNAL MEMORY

The data can be copied/erased by the operations on the HOME screen. (When erasing the data, execute formatting the internal memory.)

Note: When replacing the SY-177 board, erase the data in internal memory of the board before replacement.

Method for Copying the Data in Internal Memory

Copy

Copies all images in the internal memory to a “Memory Stick Duo”.

① Insert a “Memory Stick Duo” having 32 MB or larger capacity.

② Select [Copy] with ▲/▼/◄/► on the control button, then press ●.
The message “All data in internal memory will be copied” appears.

③ Select [OK] with ▲, then press ●.
Copying starts.

To cancel the copying

Select [Cancel] in step ③, then press ●.

- Use a fully charged battery pack. If you attempt to copy image files using a battery pack with little remaining charge, the battery pack may run out, causing copying to fail or possibly corrupting the data.
- You cannot copy individual images.
- The original images in the internal memory are retained even after copying. To delete the contents of the internal memory, remove the “Memory Stick Duo” after copying, then execute the [Format] command in [Internal Memory Tool].
- When you copy the data in the internal memory to the “Memory Stick Duo”, all the data will be copied. You cannot choose a specific folder on the “Memory Stick Duo” as the destination for the data to be copied.
- Even if you copy data, a DPOF (Print order) mark is not copied.

Method for Formatting the Internal Memory

This item does not appear when a “Memory Stick Duo” is inserted in the camera.

Format

Formats the internal memory.

- Note that formatting irrevocably erases all data in the internal memory, including even protected images.

① Select [Format] with ▲/▼/◄/► on the control button, then press ●.
The message “All data in internal memory will be erased” appears.

② Select [OK] with ▲, then press ●.
The format is completed.

To cancel the formatting

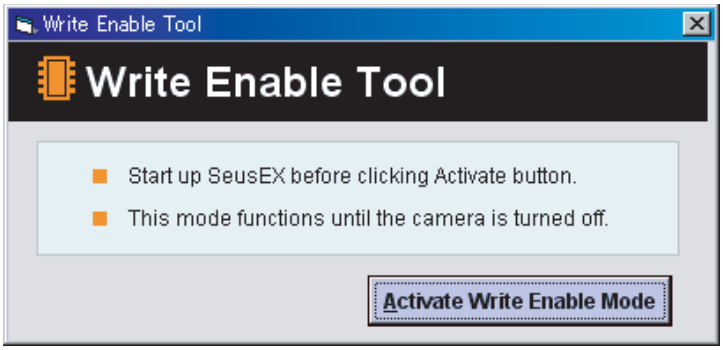
Select [Cancel] in step ②, then press ●.

1-5. HOW TO WRITE DATA TO INTERNAL MEMORY

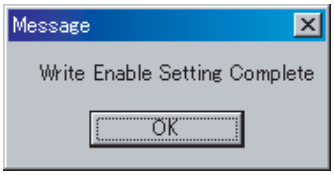
Usually, the camera has been set so as to disable the data writing from the PC to the internal memory of the camera.
This setting must be changed temporarily when the data is to be written to the internal memory such as a case after the board replacement.
To change the setting, use the write enable tool “WriteEnableTool.exe”.

Data writing method

1) Connect the PC to the camera (USB mode: Mass Storage), and switch the driver to the “Sony Seus USB Driver”.
2) Start the Write Enable Tool and the SeusEX.
3) Click the [Activate Write Enable Mode] button of the Write Enable Tool.



4) Upon completion of the setting change, the following message will be displayed.



5) Return the driver to the original one, and connect the PC to the camera (USB mode: Mass Storage).
6) Write the data read out into the PC to the internal memory of the camera.
7) Disconnect the PC from the camera, and turn off the camera.

Note: By turning off the camera, the write enable setting is reset.

1. サービスノート

1-1. SY-177基板交換時の注意

仕向けデータ

補修用基板と交換する時，補修用基板に書かれている仕向けデータは元の設定と違っている場合があります。
ADJ編を参照して，「DESTINATION DATA WRITE」を行ってください。

USBシリアルNo.

セットは，1台毎に異なる固有のID（USB Sereal No）を書き込んだ後，出荷されています。
新品の補修用基板には，このIDが書き込まれていないので，基板交換後にIDを入力する必要があります。
ADJ編を参照して，「USB SERIAL No. INPUT」を行ってください。

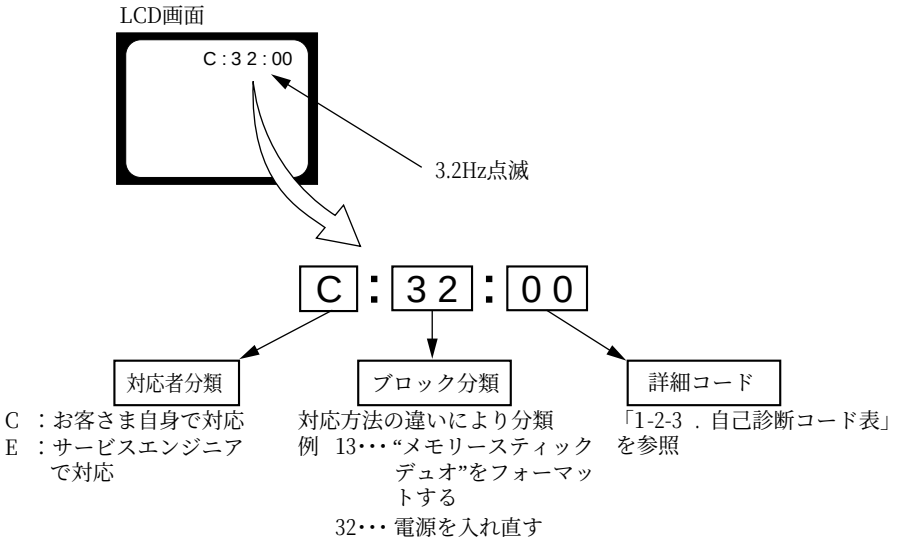
1-2. 自己診断機能

1-2-1. 自己診断機能について

本機の動作に不具合が生じたとき，自己診断機能が働き，ＬＣＤ画面に，どう処置したらよいか判断できる表示を行います。自己診断機能については取扱説明書にも掲載されています。

1-2-2. 自己診断表示

本機の動作に不具合が生じたとき，LCD画面にアルファベットと4桁の数字が表示され，3.2Hzで点滅します。この5文字の表示によって対応者分類および不具合の生じたブロックの分類，不具合の詳細コードを示します。



1-2-3. 自己診断コード表

自己診断コード			症状／状態	対応／方法
対応者	ブロック機能	詳細コード		
C	1 3	0 1	内蔵メモリにフォーマットエラーがあった。	内蔵メモリをフォーマットする。
			フォーマットしていない“メモリースティック デュオ”を入れた。	“メモリースティック デュオ”をフォーマットする。
			“メモリースティック デュオ”が壊れている。	新しい“メモリースティック デュオ”に交換する。
			“メモリースティック デュオ”のタイプエラーを検出した。	規格内の“メモリースティック デュオ”を挿入する。
			“メモリースティック デュオ”が読み／書きできない。	電源の入れ直し，または“メモリースティック デュオ”の挿し／外しを数回試す。
C	3 2	0 1	ハードウェアトラブルを検出した。	電源を入れ直す。
E	6 1	0 1	フォーカスが合いにくい。 （フォーカスの初期化ができない）	操作スイッチの電源を入れ直す。 復帰しない場合はレンズブロックのフォーカスリセットセンサ（SY-177基板CN401㉗ピン）を点検する。異常なければフォーカスモータ駆動IC（SY-177基板IC401）を点検する。
E	6 1	0 2	ズーム動作の異常。 （ズームレンズの初期化ができない）	操作スイッチの電源を入れ直す。 ズームボタンを操作したときにズーム動作をすればレンズブロックのズームリセットセンサ（SY-177基板CN401⑰ピン）を点検する。異常なければズームモータ駆動IC（SY-177基板IC401）を点検する。
E	6 2	0 2	手振れ補正用ICの異常。	手振れ補正用IC（SY-177基板IC503）を点検または交換する。
E	6 2	1 0	手振れ補正用ICの異常。 （レンズ初期化異常）	手振れ補正用IC（SY-177基板IC503）を点検または交換する。
E	6 2	1 1	レンズオーバーヒート（PITCH）	光学手振れ補正ブロックのホール素子（PITCH）（SY-177基板CN401㉟，㊲ピン）を点検する。異常なければPITCH角速度センサ（SY-177基板SE501）周辺の回路を点検する。
E	6 2	1 2	レンズオーバーヒート（YAW）	光学手振れ補正ブロックのホール素子（YAW）（SY-177基板CN401㉚, ㉜ピン）を点検する。異常なければYAW角速度センサ（SY-177基板SE502）周辺の回路を点検する。
E	6 2	2 0	サーミスタの異常。	光学手振れ補正ブロックのサーミスタ（SY-177基板CN401㉞ピン）を点検する。
E	9 1	0 1	フラッシュの充電異常。	フラッシュユニットを点検または交換する。（Note）
E	9 2	0 0	規定外の充電池が使用された。	規定の充電池を使用する。

Note：交換後は，必ず「1-3. フラッシュ異常修理後の処置」を行って下さい。

1-3. フラッシュエラー発生時の対処法

本機はフラッシュエラー（自己診断コードE：91：01）が発生した場合，高電圧による異常を防止するために自動的にフラッシュ充電および発光禁止の設定になります。
フラッシュエラー発生後はエラーの解除を行う必要があります。エラーの解除はホーム画面から初期化操作を実行することにより行います。

設定リセット

お買い上げ時の設定に戻します。
[設定リセット]を実行しても、内蔵メモリーに記録されている画像は削除されません。

①コントロールボタンの▲/▼/◀/▶で[設定リセット]を選び、中央の●を押す。
「全ての設定内容をリセットします」というメッセージが表示される。
②▲で[実行]を選び、中央の●を押す。
設定リセットが実行される。

設定リセットを中止するには
手順②で、[キャンセル]を選び、中央の●を押す。

設定リセット中は電源が切れないようにご注意ください。

1-4. 内蔵メモリのデータコピーおよび消去方法

内蔵メモリのデータコピーまたは消去はホーム画面の操作から実行可能です。（消去する場合は内蔵メモリの初期化を行います。）

Note: SY-177基板交換の際は，基板交換前に内蔵メモリのデータを消去して下さい。

内蔵メモリのコピー方法

コピー

内蔵メモリーに記録した画像を、" メモリースティック デュオ "に一括コピーします。

① 32MB以上の容量のある" メモリースティック デュオ "を本体に入れる。
② コントロールボタンの▲/▼/▶/◀で[コピー]を選び、中央の●を押す。
「内蔵メモリーのデータがすべてコピーされます」というメッセージが表示される。
③ ▲で[実行]を選び、中央の●を押す。
コピーが実行される。

コピーを中止するには
手順③で、[キャンセル]を選び、中央の●を押す。

＊充分に充電したバッテリーをご使用ください。残量の少ないバッテリーを使用して画像ファイルをコピーすると、バッテリー切れのため、データを転送できなかったり、データを破損するおそれがあります。
＊画像ごとのコピーはできません。
＊データをコピーしても、内蔵メモリー内のデータは削除されません。内蔵メモリーの内容を消去するには、コピー後に" メモリースティック デュオ "を本体から取りはずし、[内蔵メモリーツール]の[フォーマット]を行ってください。
＊データをコピーすると、" メモリースティックデュオ "内に新しいフォルダが作成されます。
コピー先のフォルダを指定することはできません。
＊データのコピーを行っても、DPOF(プリント予約)マークの設定はコピーされません。

内蔵メモリのフォーマット方法

"メモリースティック デュオ"が本機に入っている場合は表示されません。

フォーマット

内蔵メモリーの管理領域をフォーマット(初期化)します。

フォーマットすると、プロテクトしてある画像も含めて、すべてのデータが消去され、元に戻せません。

①コントロールボタンの▲/▼/◀/▶で[フォーマット]を選び、中央の●を押す。
「内蔵メモリーのデータがすべて消去されます」というメッセージが表示される。
▲で[実行]を選び、中央の●を押す。
②フォーマットが実行される。

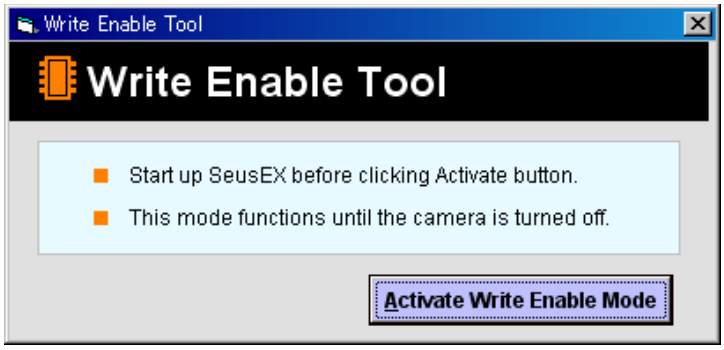
フォーマットを中止するには
手順②で、[キャンセル]を選び、中央の●を押す。

1-5. 内蔵メモリへデータを書き戻す方法

通常は，PCからカメラの内蔵メモリへデータを書き込むことはできない設定になっています。
基板交換後などに，内蔵メモリへデータを書き戻す場合には，この設定を一時的に変更する必要があります。
設定の変更には，書き込み許可ツール(Write Enable Tool.exe)を使用します。

書き戻し方法

1) カメラとPCをマスストレージ接続し，ドライバを"Sony Seus USB Driver"に切り替える。
2) 書き込み許可ツールとSeusEXを起動する。
3) 書き込み許可ツールの[Activate Write Enable Mode]ボタンをクリックする。



4) 設定の変更が終了すると，次のメッセージが表示されます。

5) ドライバを元に戻して、カメラとPCをマスストレージ接続する。
6) PCに読み出しておいたデータをカメラの内蔵メモリに書き込む。
7) カメラとPCの接続を解除し，カメラの電源をOFFにする。

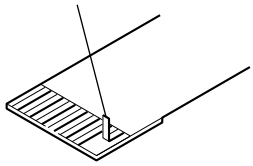
注意： カメラの電源をOFFにすることにより，書き込み許可の設定が解除されます。

2. DISSASSEMBLY

NOTE FOR REPAIR

- Make sure that the flat cable and flexible board are not cracked of bent at the terminal. Do not insert the cable insufficiently nor crookedly.
- When remove a connector, dont' pull at wire of connector. It is possible that a wire is snapped.
- When installing a connector, dont' press down at wire of connector. It is possible that a wire is snapped.
- Do not apply excessive load to the gilded flexible board.

Cut and remove the part of gilt which comes off at the point. (Be careful or some pieces of gilt may be left inside)

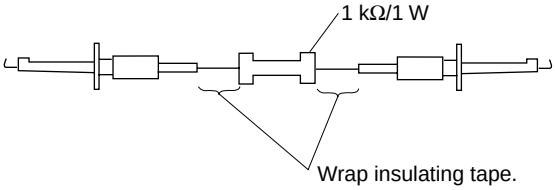


DISCHARGING OF THE DD-272 BOARD'S CHARGING CAPACITOR (C205)

The charging capacitor (C205) of the DD-272 board is charged up to the maximum 300 V potential.
There is a danger of electric shock by this high voltage when the capacitor is handled by hand. The electric shock is caused by the charged voltage which is kept without discharging when the main power of the unit is simply turned off. Therefore, the remaining voltage must be discharged as described below.

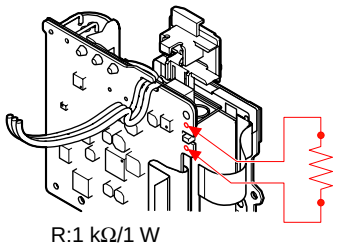
Preparing the Short Jig

To preparing the short jig, a small clip is attached to each end of a resistor of 1 kΩ /1 W (1-215-869-11).
Wrap insulating tape fully around the leads of the resistor to prevent electrical shock.

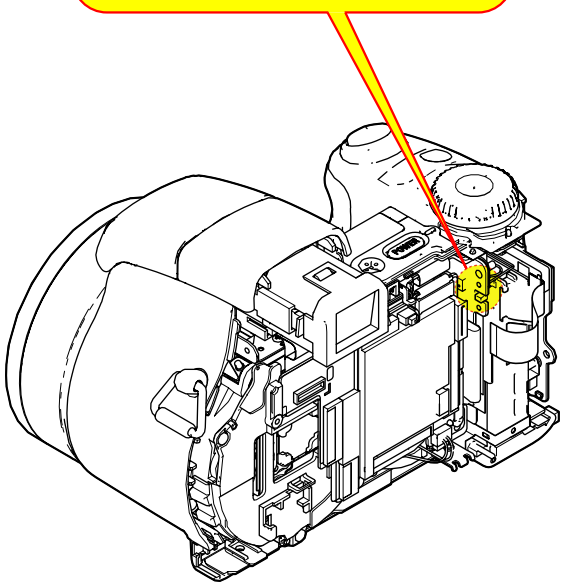


Note: High-voltage cautions

Discharging the Capacitor
Short-circuit between the two points with the short jig about 10 seconds.



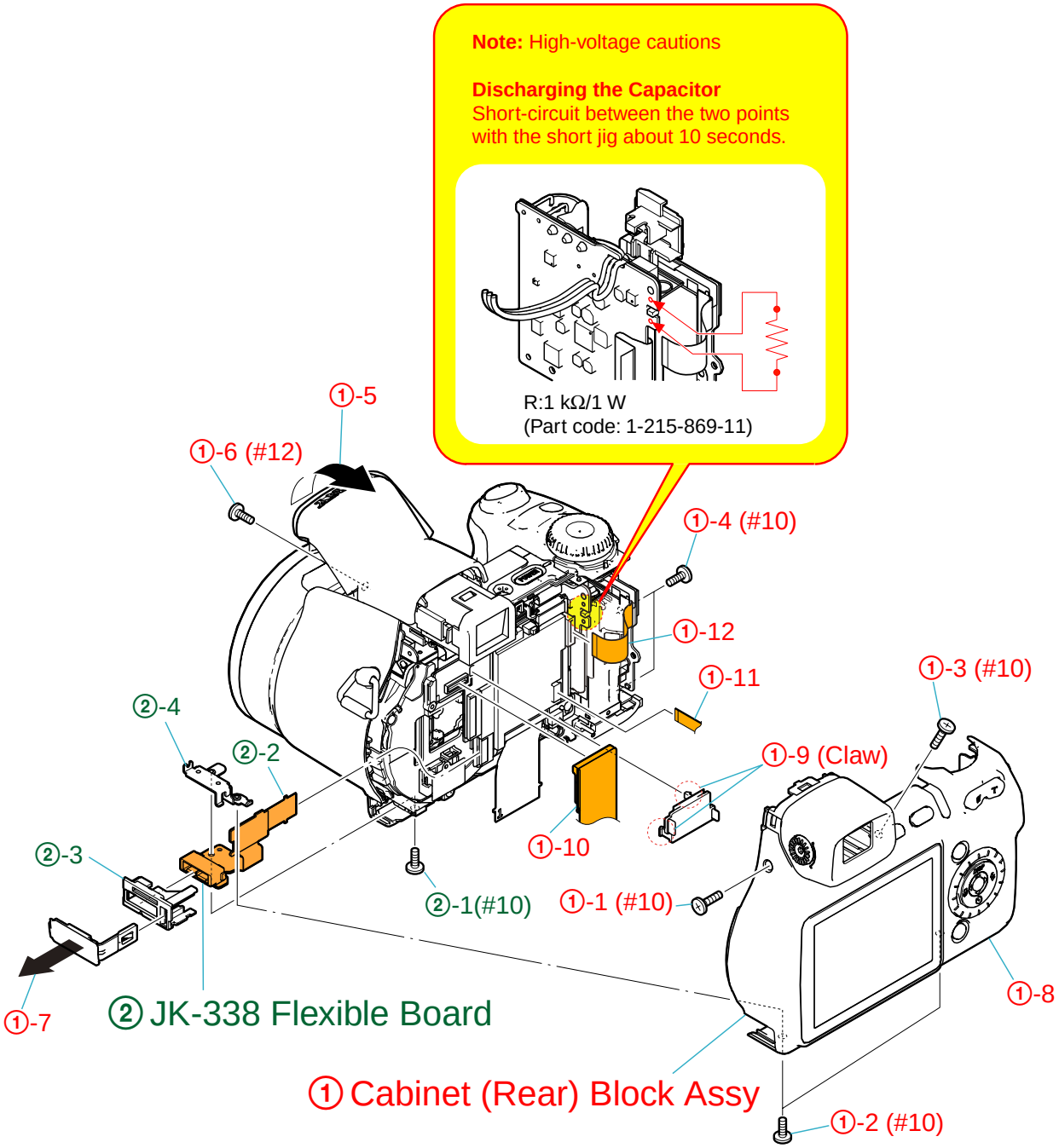
R:1 kΩ/1 W
(Part code: 1-215-869-11)



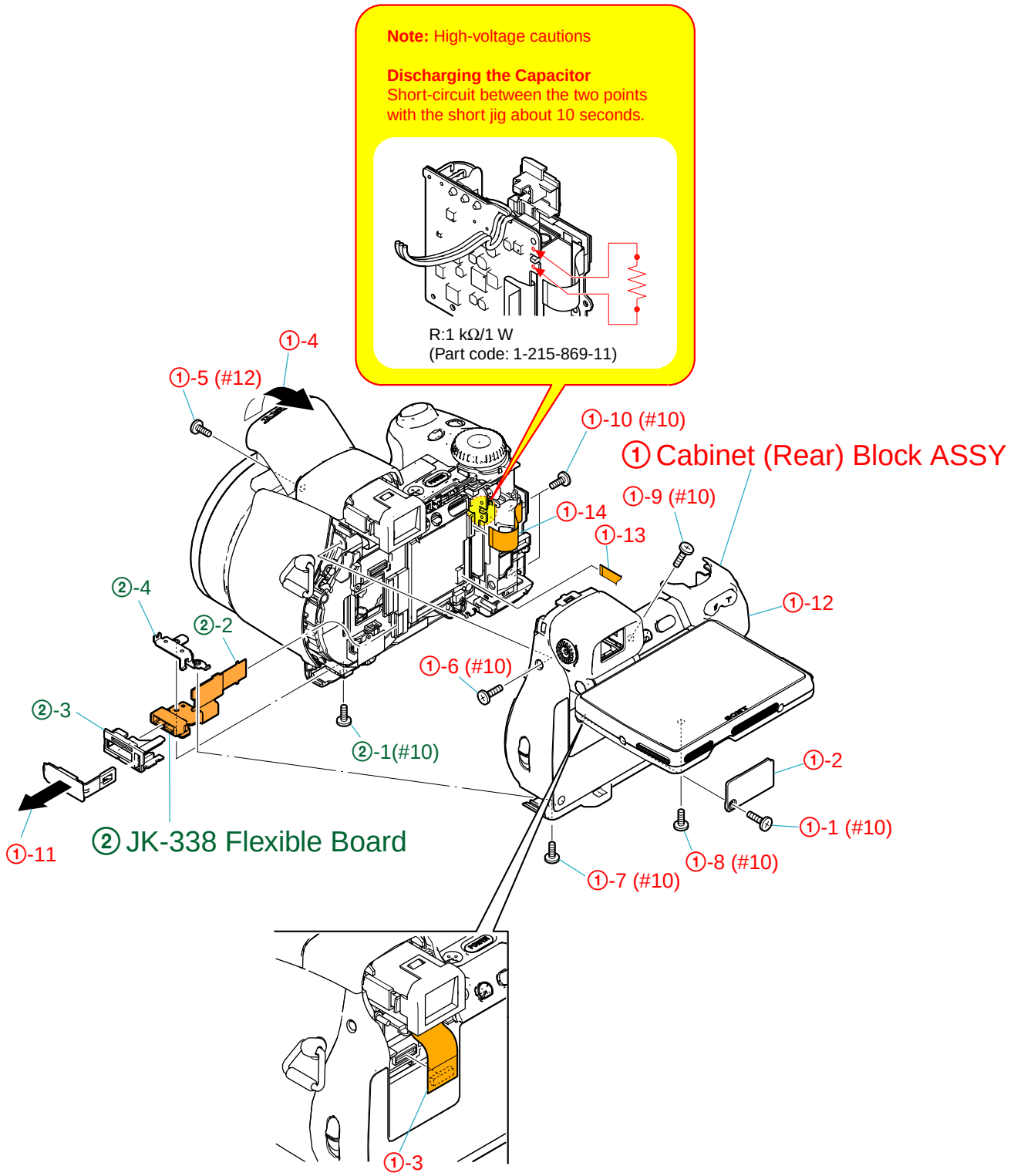
2-1. DISASSEMBLY

EXPLODED VIEW HARDWARE LIST

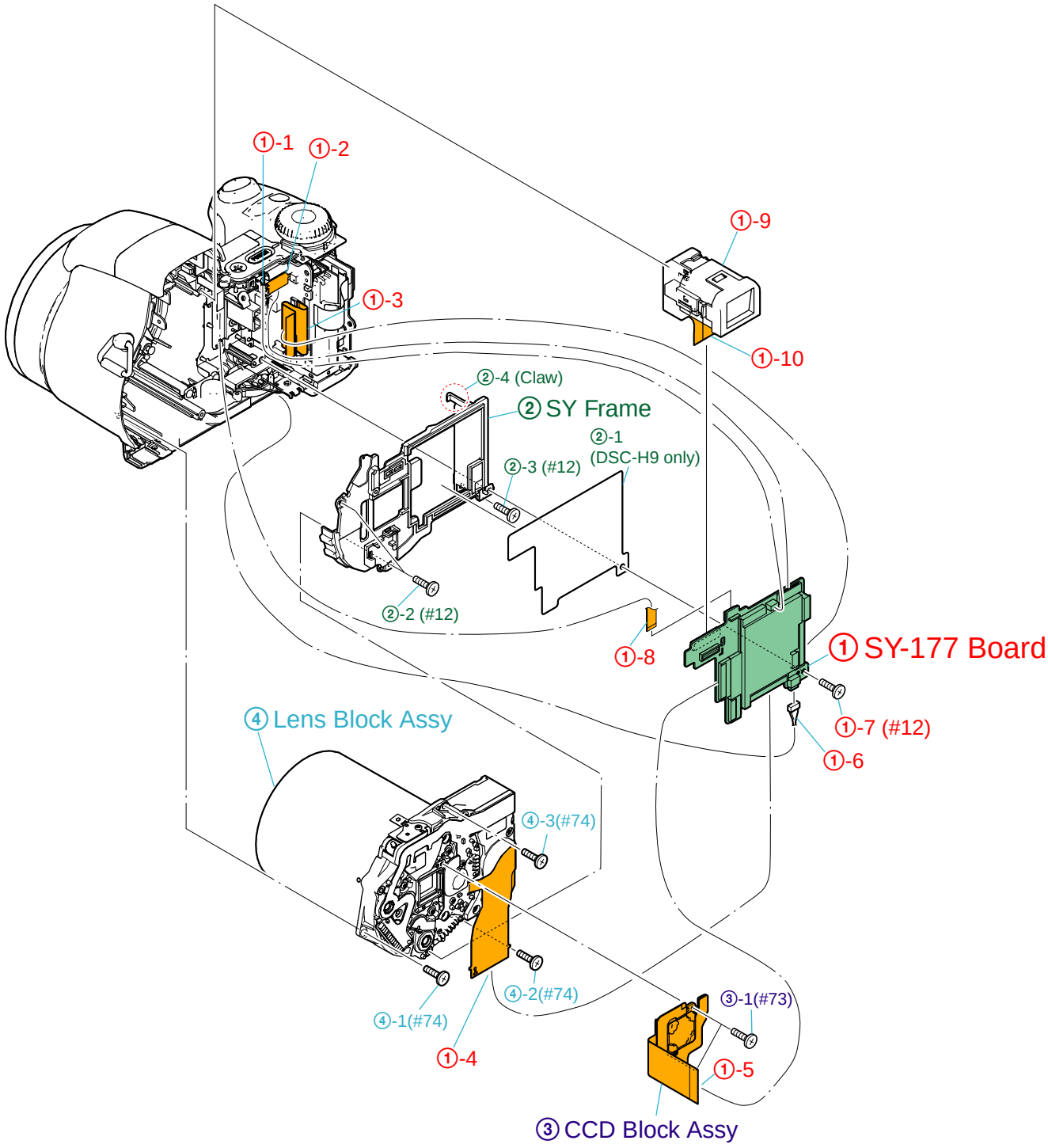
2-1-1. CABINET(REAR) BLOCK ASSY AND JK-338 FLEXIBLE BOARD (DSC-H7)



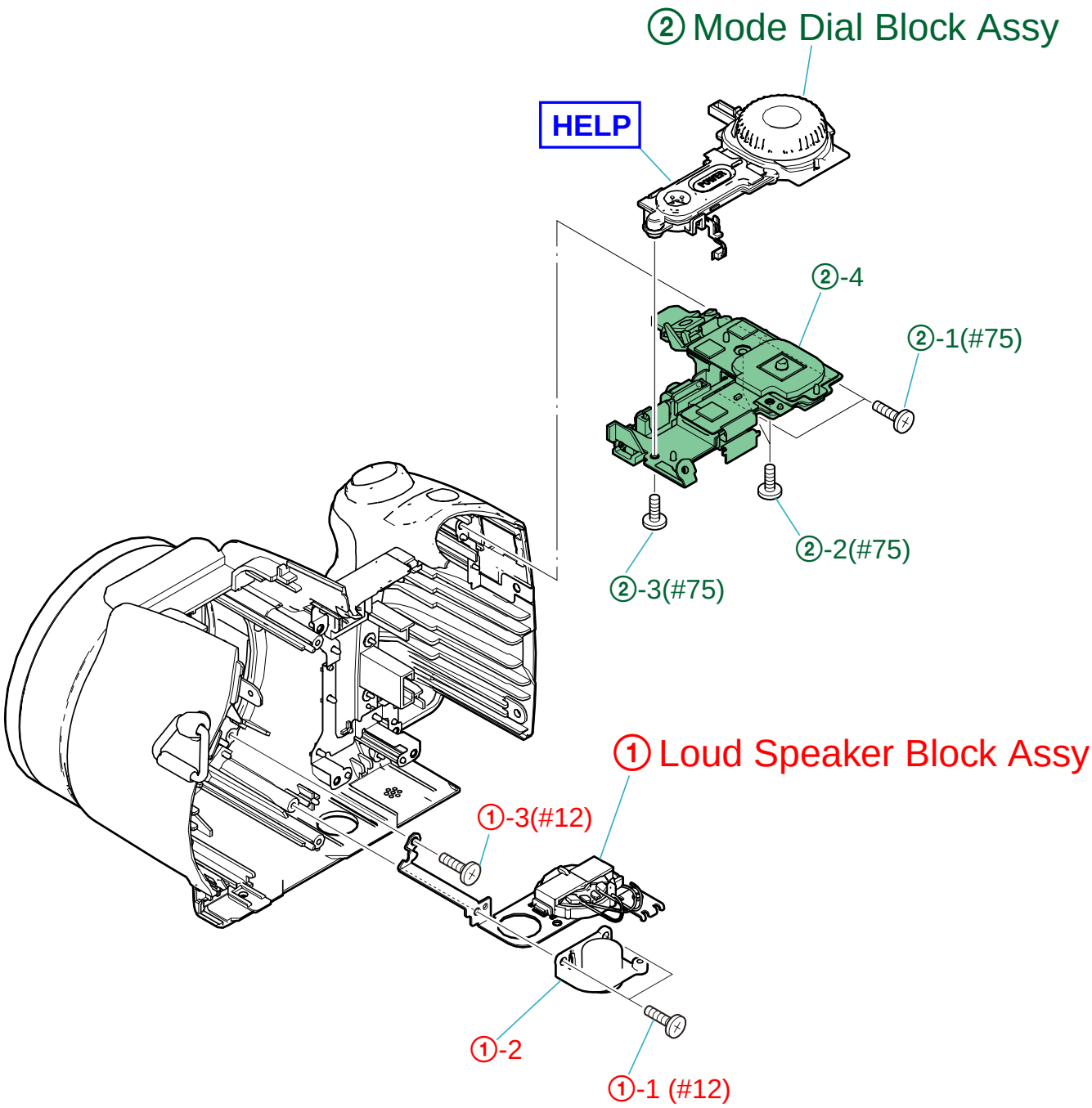
2-1-2. CABINET(REAR) BLOCK ASSY AND JK-338 FLEXIBLE BOARD (DSC-H9)



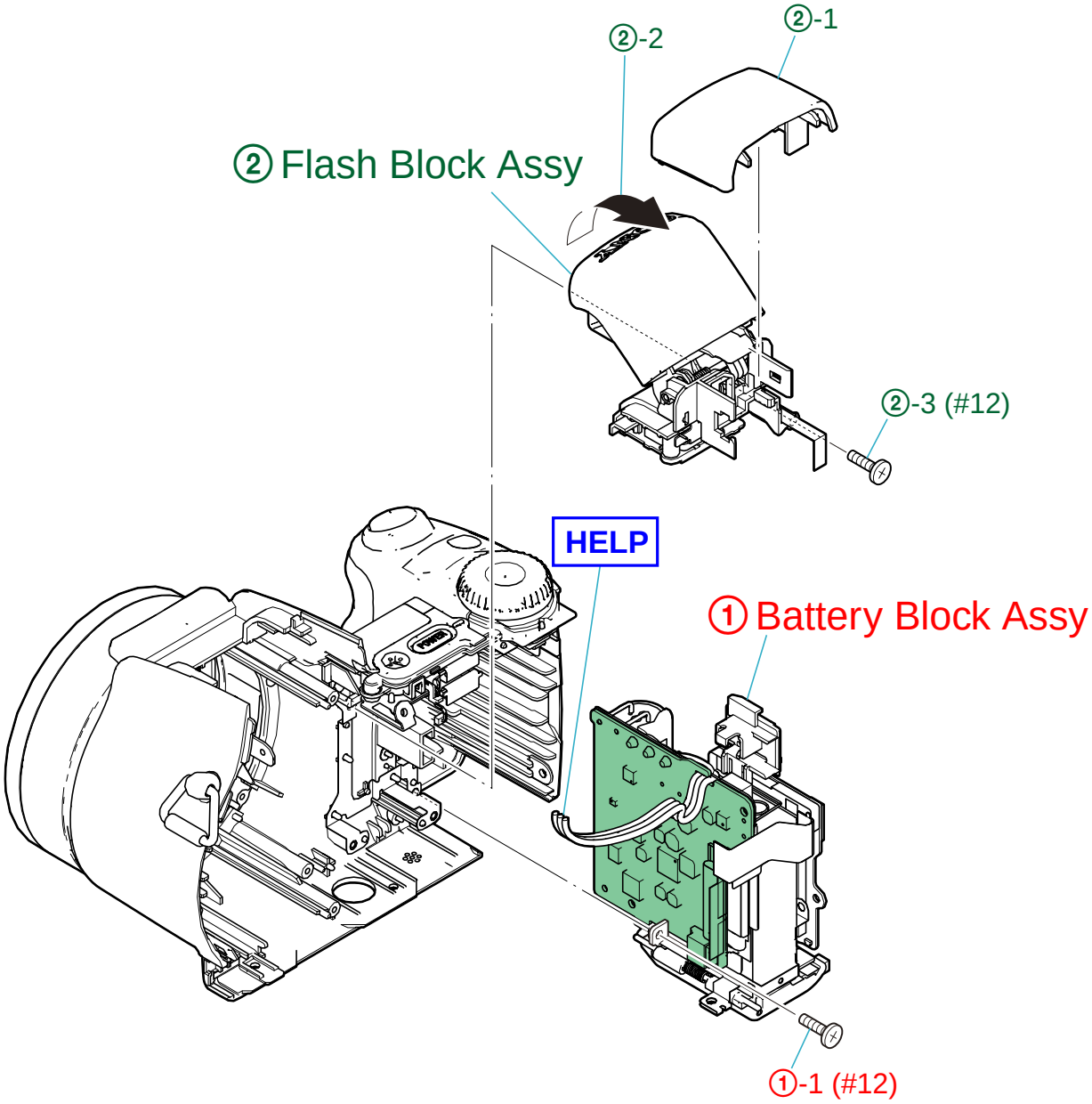
2-1-3. SY-177 BOARD, SY FRAME, CCD BLOCK ASSY AND LENS BLOCK ASSY



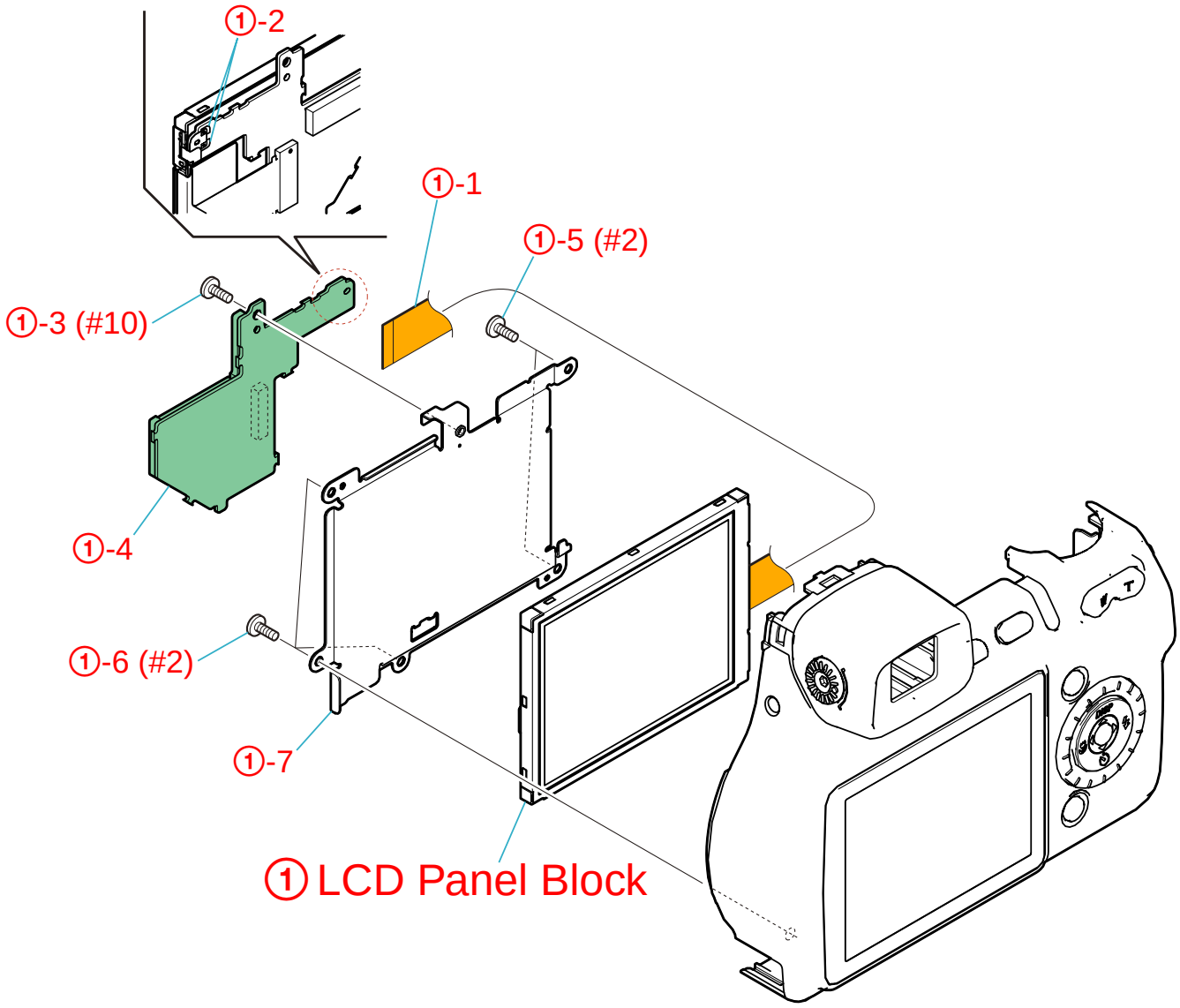
2-1-4. LOUD SPEAKER BLOCK ASSY AND MODE DIAL BLOCK ASSY



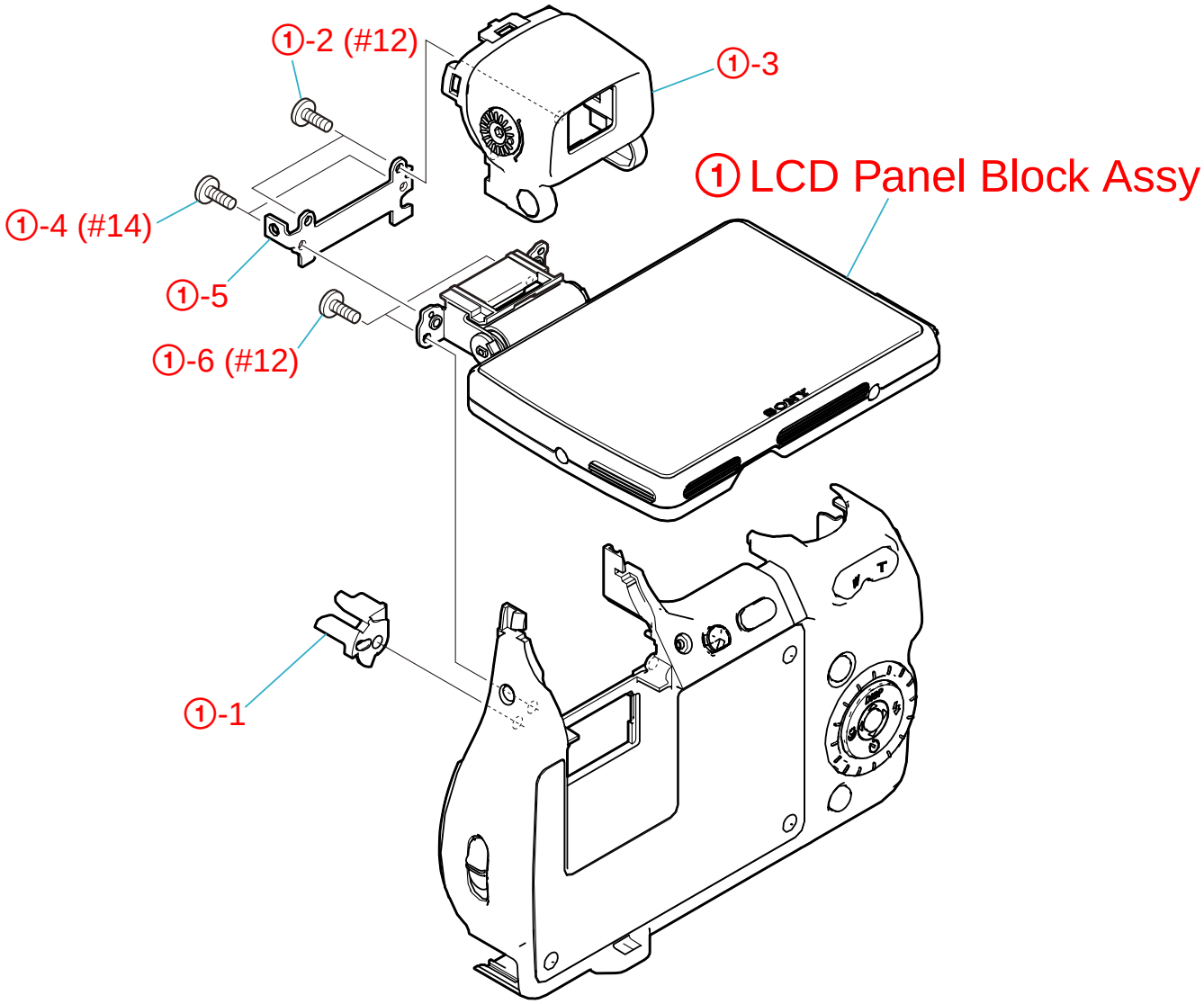
2-1-5. BATTERY BLOCK ASSY AND FLASH BLOCK ASSY



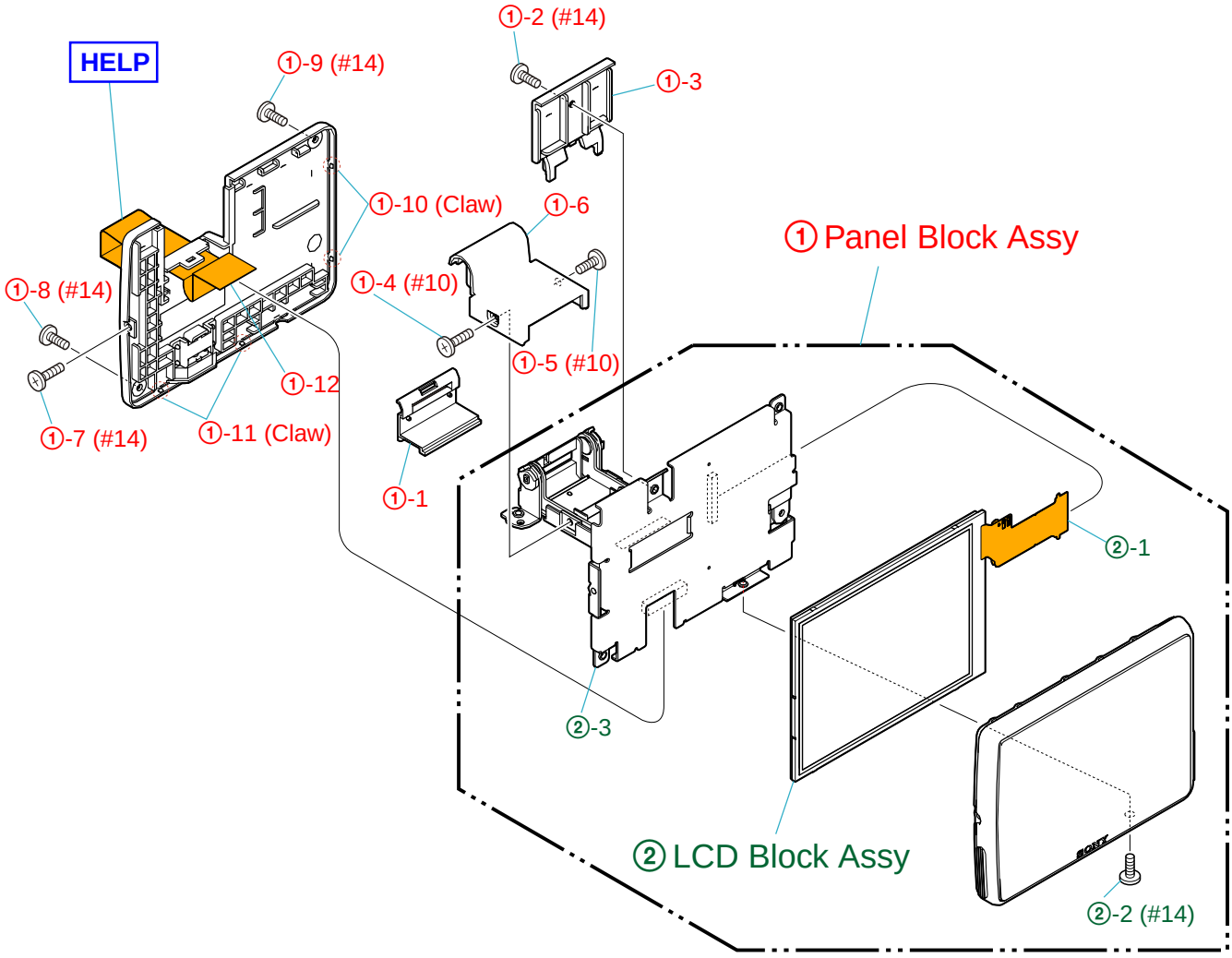
2-1-6. LCD PANEL BLOCK (DSC-H7)



2-1-7. LCD PANEL BLOCK (DSC-H9)



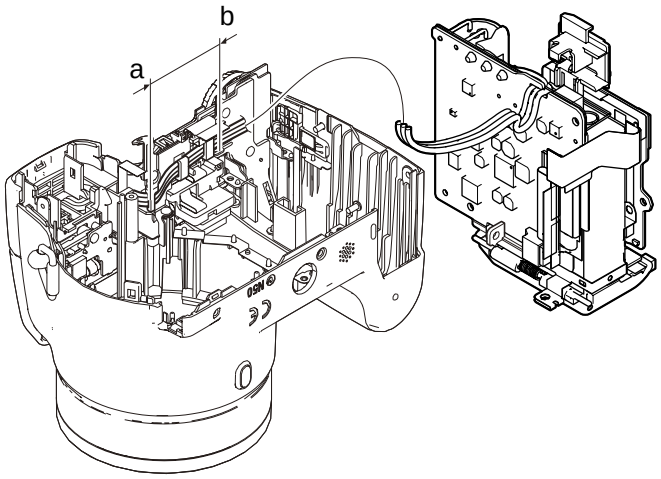
2-1-8. PANEL BLOCK ASSY AND LCD BLOCK ASSY (DSC-H9)

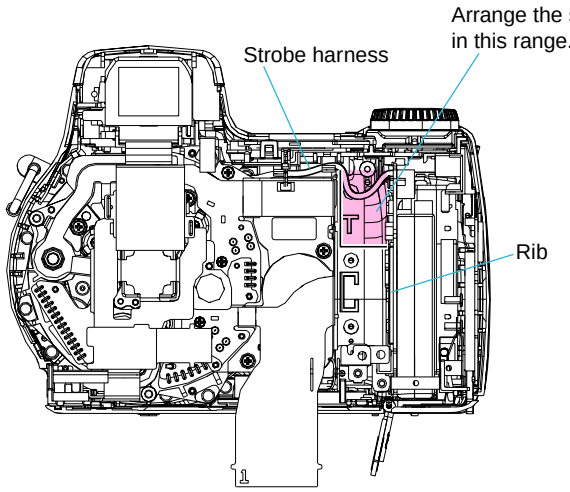


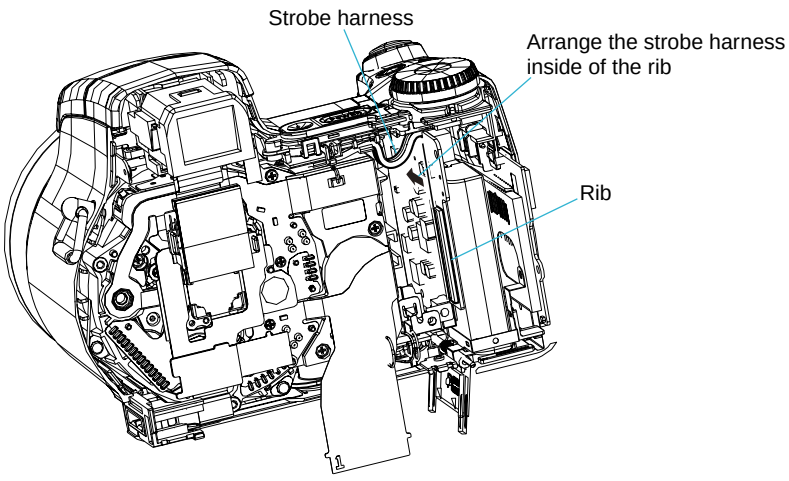
HELP

Assembling procedures that require attention are described here.

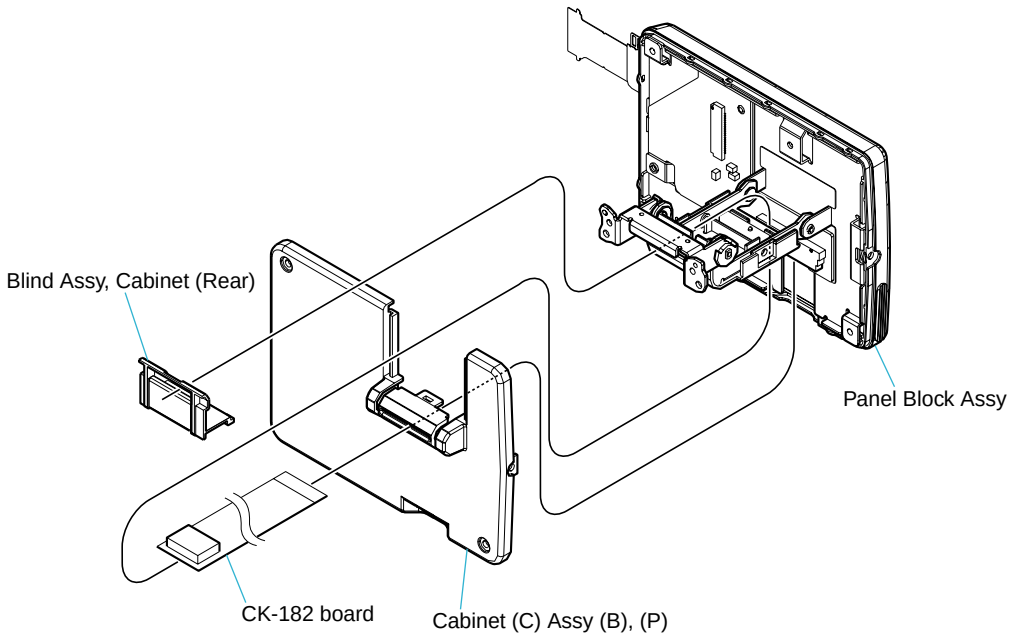
When installing theree harness, do not intersect the harness in the part between “a” and “b” as shown in figure.



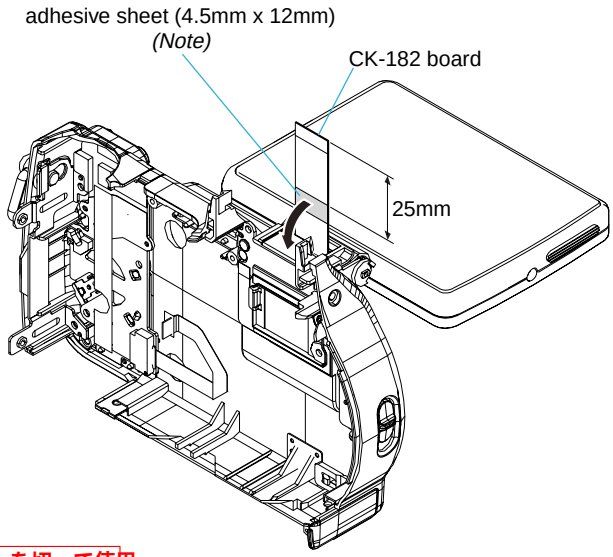




CK-182 flexible board arrangement



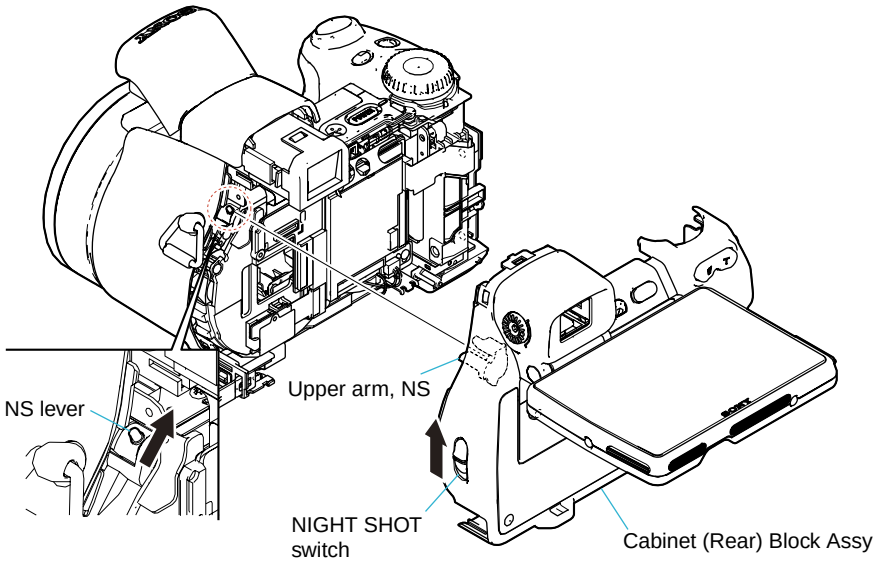
CK-182 flexible board sticking



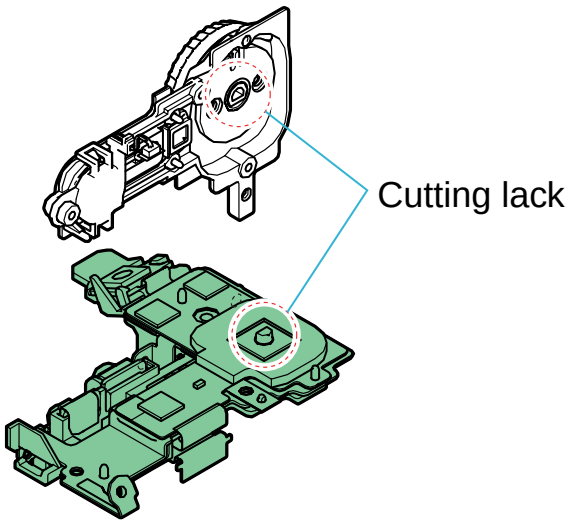
Note ： 接着紙 (2-649-300-01) を切って使用。

Note : Cut SHEET, ADHESIVE (2-649-300-01) into the desired length and use it.

On assembling, set the NS lever and the NIGHTSHOT switch up and adjust the notch of NS upper arm to the projection on NS lever.



When assembling the mode dial, match the direction of the cutting lack as shown in figure



3. BLOCK DIAGRAMS

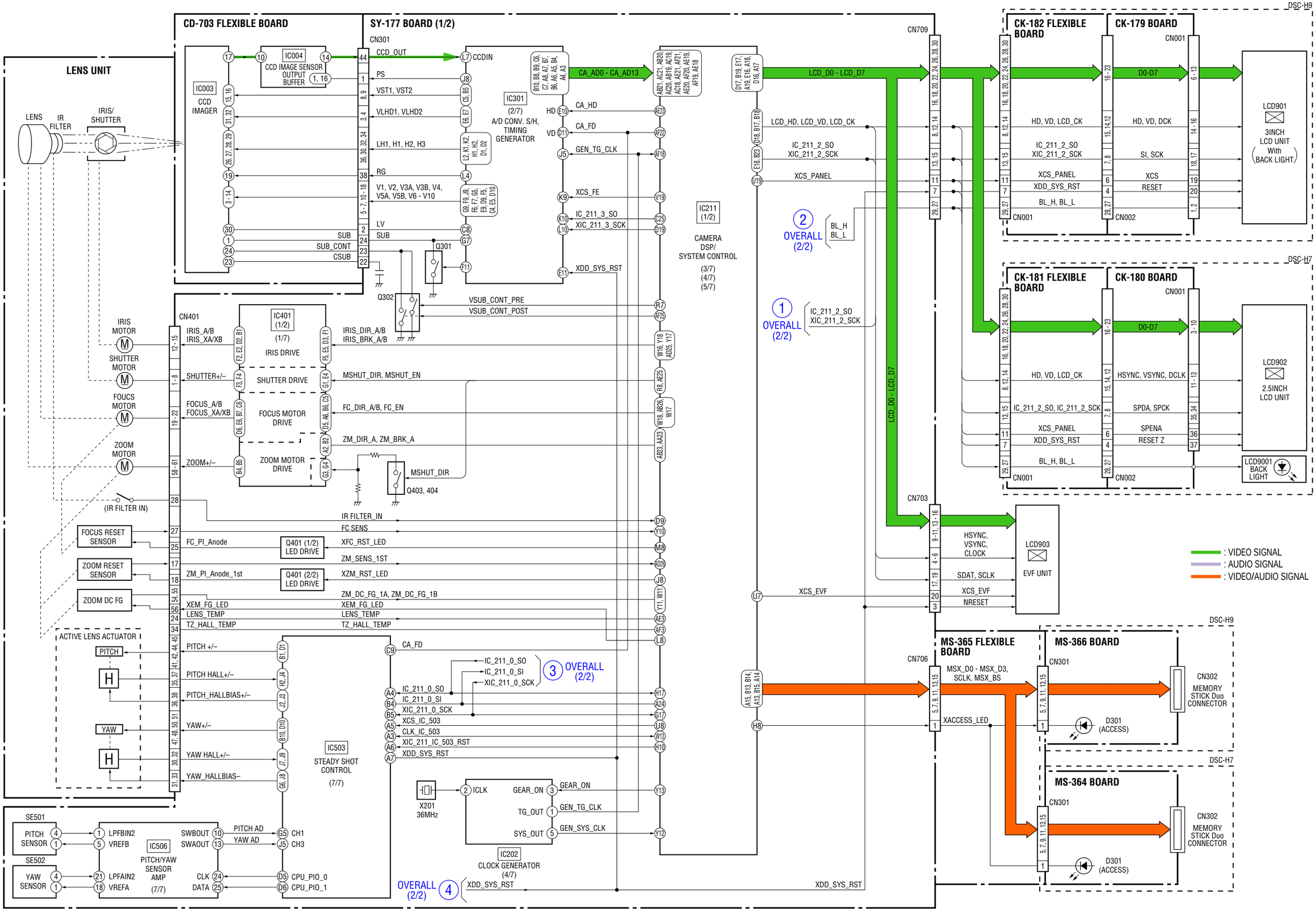
Link

OVERALL BLOCK DIAGRAM (1/2)	POWER BLOCK DIAGRAM (1/2)
OVERALL BLOCK DIAGRAM (2/2)	POWER BLOCK DIAGRAM (2/2)

3. BLOCK DIAGRAMS

3-1. OVERALL BLOCK DIAGRAM (1/2)

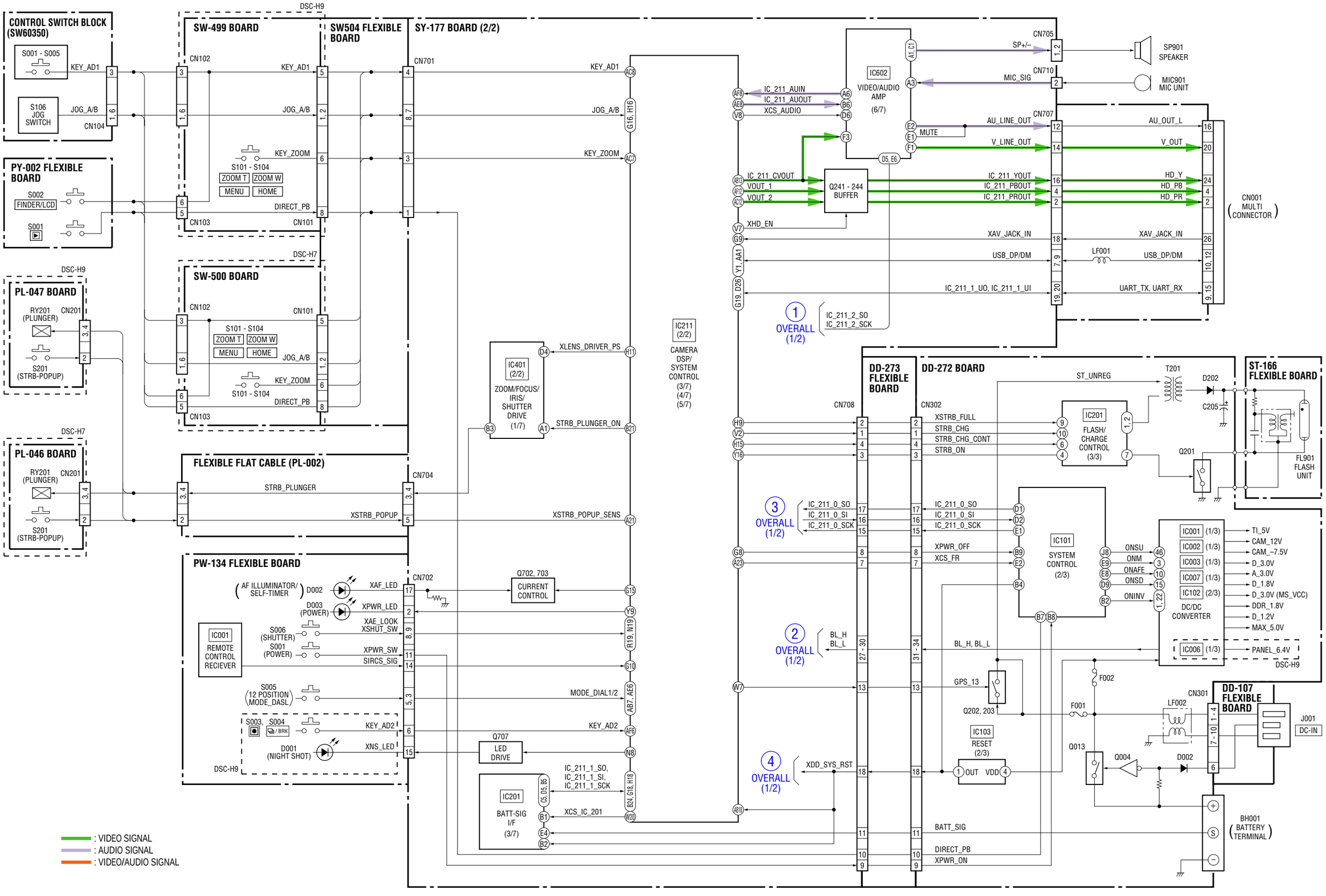
( ) : Number in parenthesis ( ) indicates the division number of schematic diagram where the component is located.



DSC-H7/H9_L2

3-2. OVERALL BLOCK DIAGRAM (2/2)

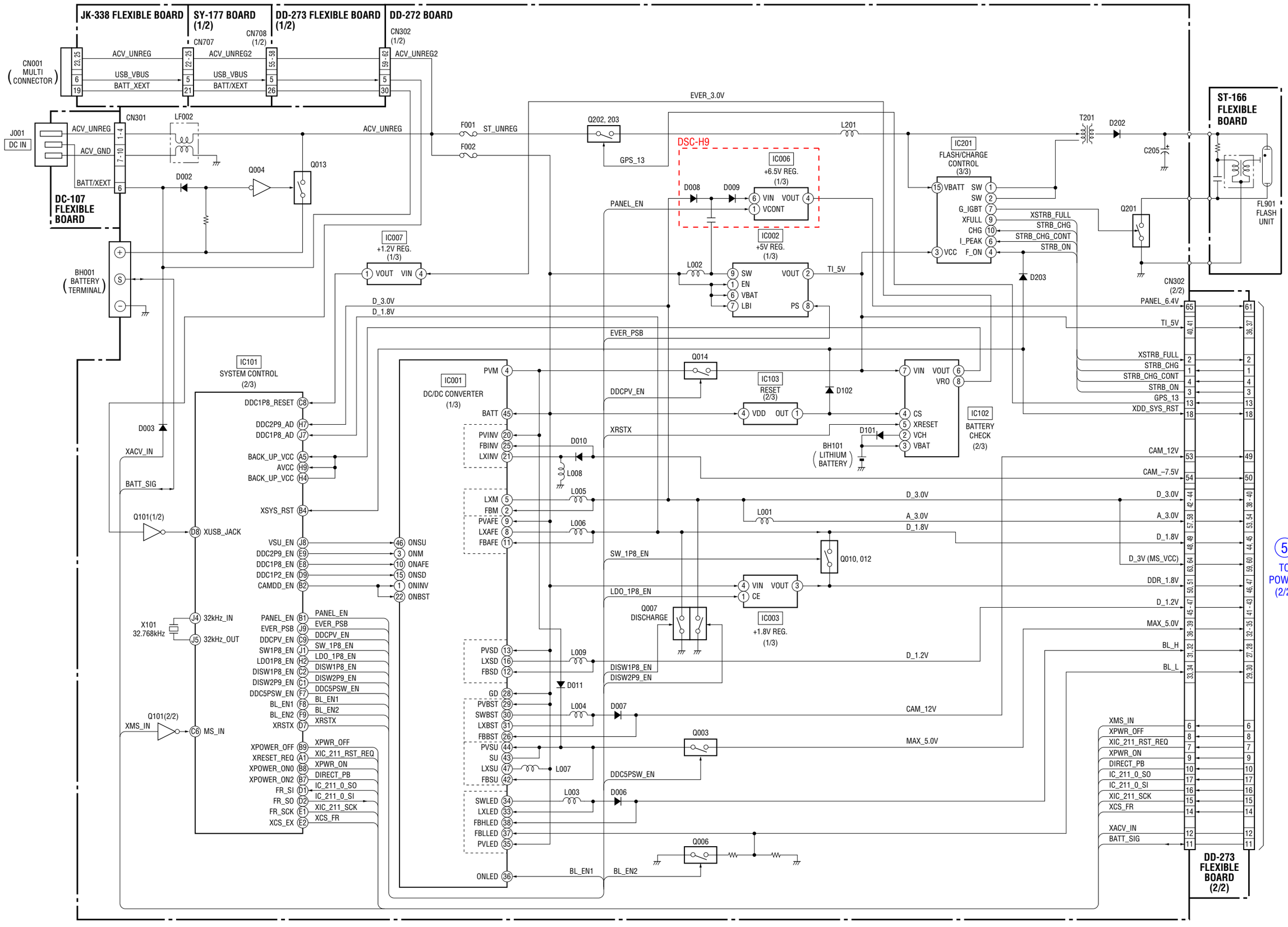
( ) : Number in parenthesis ( ) indicates the division number of schematic diagram where the component is located.



DSC-H7/H9_L2

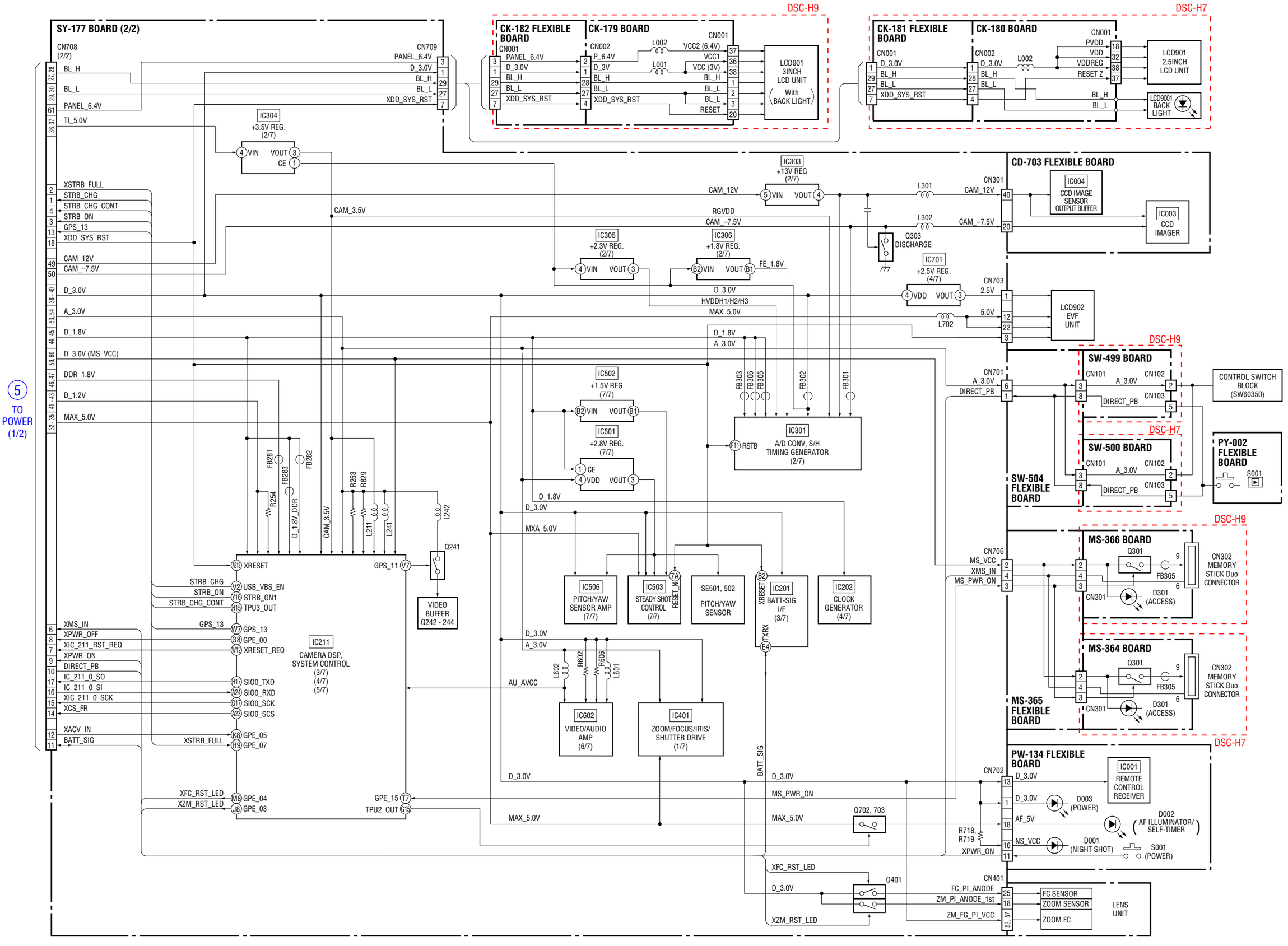
3-3. POWER BLOCK DIAGRAM (1/2)

( ) : Number in parenthesis ( ) indicates the division number of schematic diagram where the component is located.



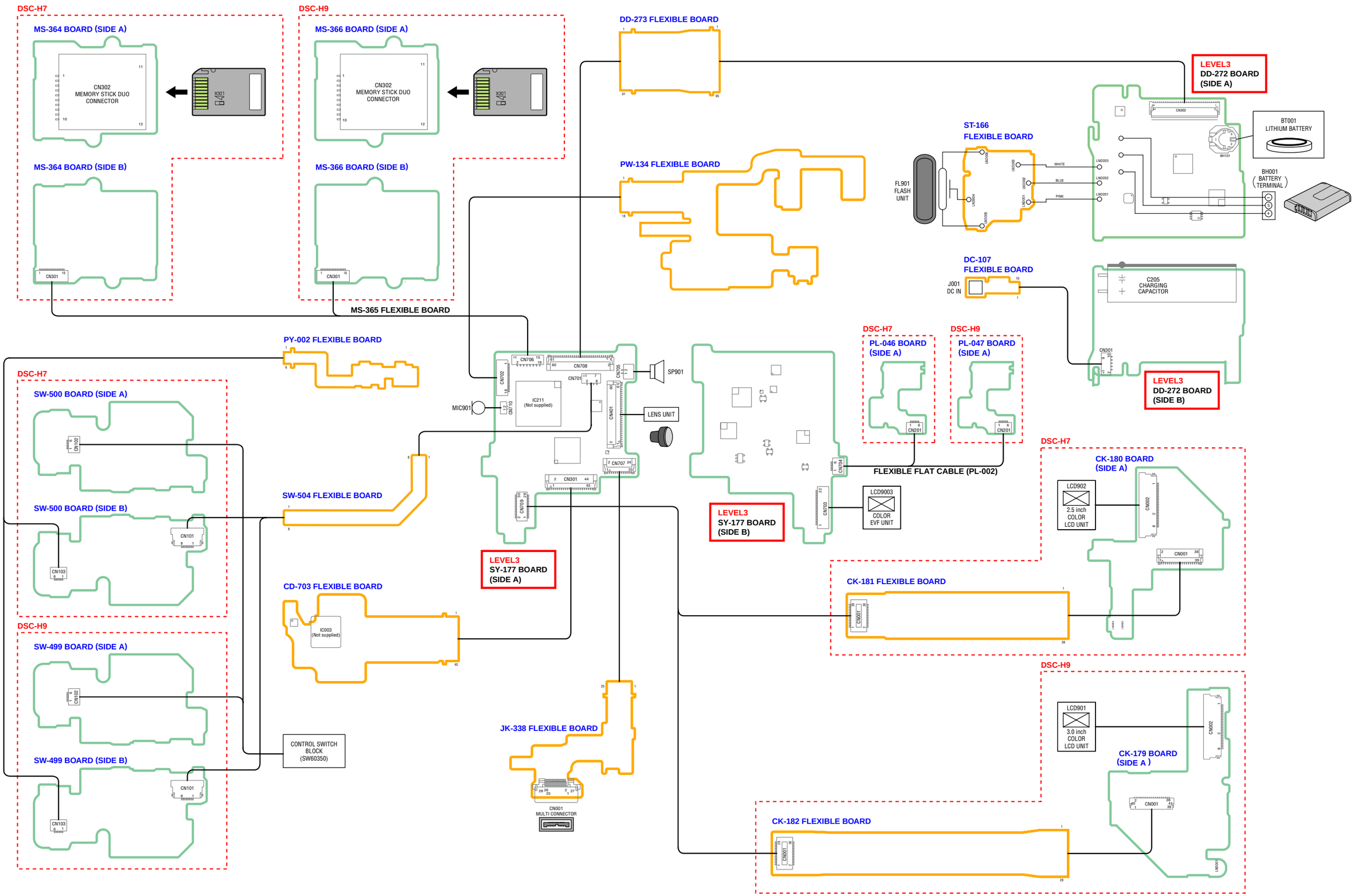
3-3. POWER BLOCK DIAGRAM (2/2)

( ) : Number in parenthesis ( ) indicates the division number of schematic diagram where the component is located.



4. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

4-1. FRAME SCHEMATIC DIAGRAM



4-2. SCHEMATIC DIAGRAMS

Link

- CD-703 FLEXIBLE BOARD (CCD IMAGER)
- CK-180 BOARD:DSC-H7 (SY TO LCD RELAY)
- CK-181 FLEXIBLE BOARD:DSC-H7 (SY TO CK RELAY)
- CK-179 BOARD:DSC-H9 (SY TO LCD RELAY)
- CK-182 FLEXIBLE BOARD:DSC-H9 (SY TO CK RELAY)
- JK-338 FLEXIBLE BOARD (MULTI CONNECTOR)
- MS-364 BOARD:DSC-H7 (MS CONNECTOR)
- MS-365 FLEXIBLE BOARD (SY TO MS RELAY)
- MS-366 BOARD:DSC-H9 (MS CONNECTOR)
- PY-002 FLEXIBLE BOARD (SWITCH)
- SW-499 BOARD:DSC-H9 (SWITCH)
- SW-500 BOARD:DSC-H7 (SWITCH)
- SW-504 FLEXIBLE BOARD (SY TO SW RELAY)
- PL-046 BOARD:DSC-H7 (PLUNGER)
- PL-047 BOARD:DSC-H9 (PLUNGER)
- PW-134 FLEXIBLE BOARD (FUNCTION SWITCH)
- DC-107 FLEXIBLE BOARD (DC IN)
- DD-273 FLEXIBLE BOARD (SY TO DD RELAY)
- ST-166 FLEXIBLE BOARD (FLASH UNIT)
- COMMON NOTE FOR SCHEMATIC DIAGRAMS

4-2. SCHEMATIC DIAGRAMS

THIS NOTE IS COMMON FOR SCHEMATIC DIAGRAMS
(In addition to this, the necessary note is printed in each block)

(For schematic diagrams)

- All capacitors are in μF unless otherwise noted. pF : μμF. 50 V or less are not indicated except for electrolytics and tantalums.
- Chip resistors are 1/10 W unless otherwise noted. kΩ=1000 Ω, MΩ=1000 kΩ.
- Caution when replacing chip parts.
  New parts must be attached after removal of chip.
  Be careful not to heat the minus side of tantalum capacitor, Because it is damaged by the heat.
- Some chip part will be indicated as follows.

  Example C541 22U TA A — Kinds of capacitor / Case size
  L452 10UH 2520 — External dimensions (mm)
- Constants of resistors, capacitors, ICs and etc with XX indicate that they are not used.
  In such cases, the unused circuits may be indicated.
- Parts with ★ differ according to the model/destination.
  Refer to the mount table for each function.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- Signal name
  XEDIT → $\overline{\text{EDIT}}$ PB/XREC → PB/$\overline{\text{REC}}$
- : non flammable resistor
- : fusible resistor
- : panel designation
- : B+ Line
- : B– Line
- : IN/OUT direction of (+,–) B LINE.
- : adjustment for repair.
- : not use circuit

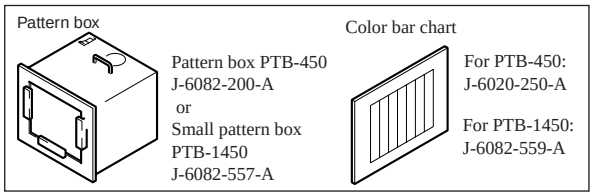
(Measuring conditions voltage and waveform)

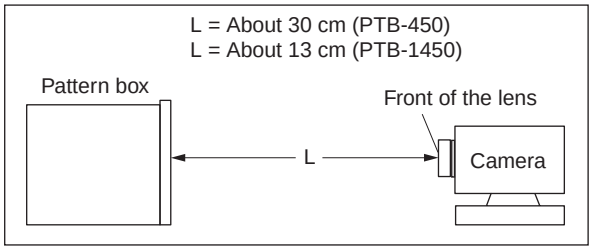
- Voltages are measured between the measurement points and ground when camera shoots color bar chart of pattern box. They are reference values and reference waveforms.
  (VOM of DC 10 MΩ input impedance is used)
- Voltage values change depending upon input impedance of VOM used.)

Precautions for Replacement of Imager

- If the imager has been replaced, carry out all the adjustments for the camera section.
- As the imager may be damaged by static electricity from its structure, handle it carefully like for the MOS IC.
  In addition, ensure that the receiver is not covered with dusts nor exposed to strong light.

1. Connection





2. Adjust the distance so that the output waveform of Fig. a and the Fig. b can be obtain.

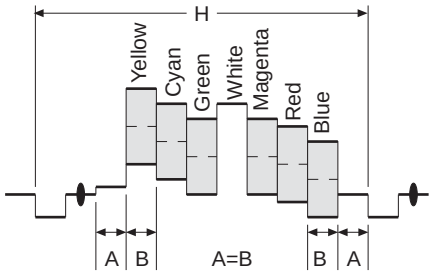


Fig. a (Video output terminal output waveform)

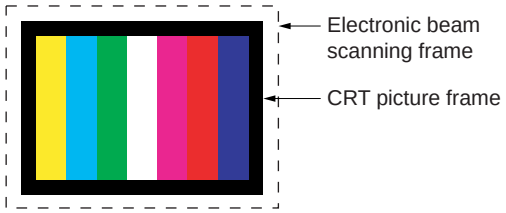


Fig.b (Picture on monitor TV)

When indicating parts by reference number, please include the board name.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

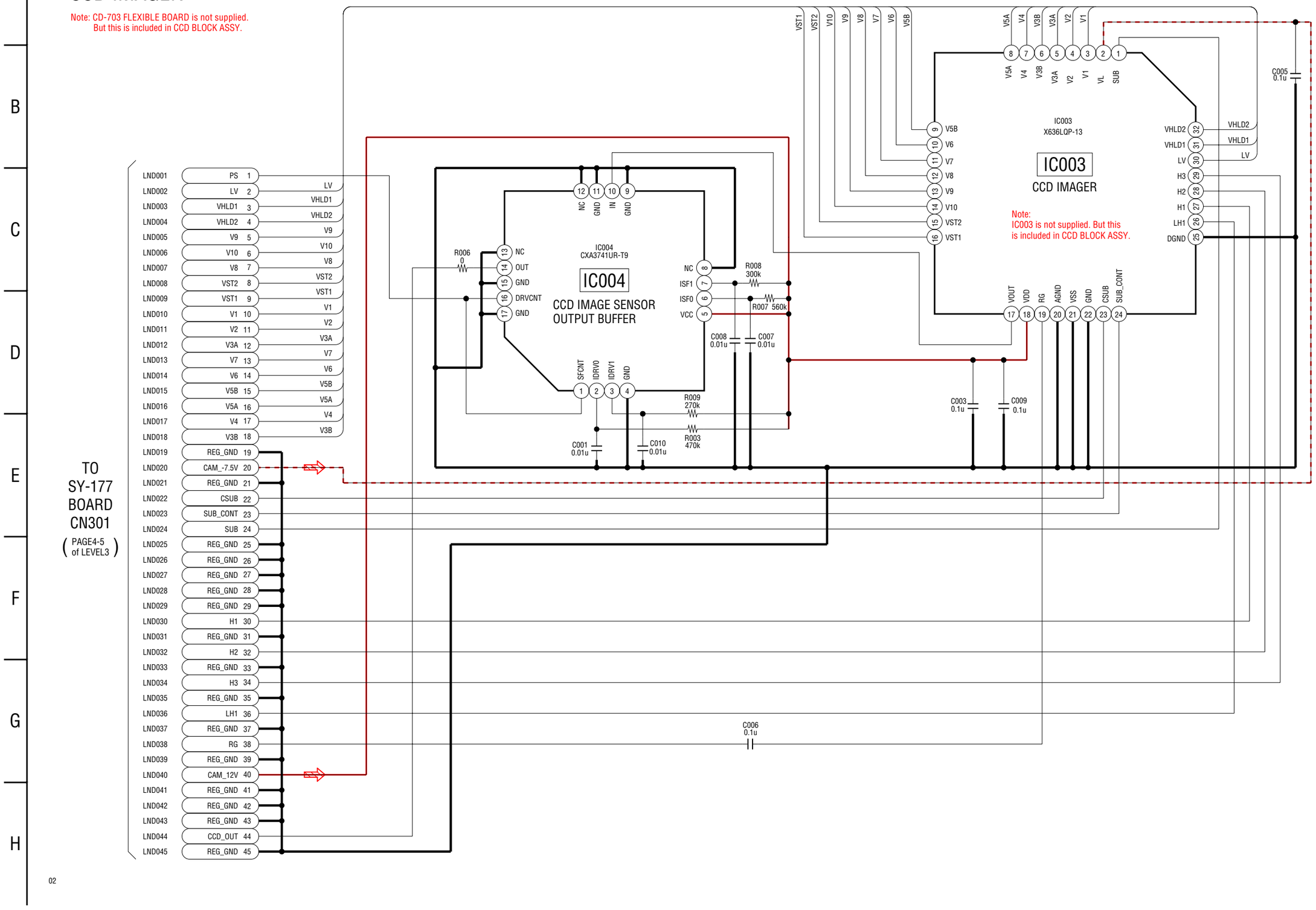
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifie.

CD-703 FLEXIBLE BOARD

CCD IMAGER

Note: CD-703 FLEXIBLE BOARD is not supplied.
But this is included in CCD BLOCK ASSY.

Note: Voltages of IC003 and IC004 can not be measured, because they are mounted on the side of the lens.



TO
SY-177
BOARD
CN301
(PAGE4-5 of LEVEL3)

02

Schematic diagrams of the SY-177 board is not shown.
Pages from 4-4 to 4-10 are not shown.

DSC-H7

CK-180 BOARD

XX MARK:NO MOUNT

SY TO LCD RELAY

LCD9001
BACK LIGHT

2.5INCH
COLOR LCD
PANEL

LCD902
(LCD UNIT)

CN001
39P

VCOM	39	
VDDREG	38	
RESET Z	37	
SPENA	36	
SPDA	35	
SPCK	34	
VSS	33	
VDD	32	
VDDD	31	
VGL	30	
C4P	29	
C4N	28	
VGH	27	
C3P	26	
C3N	25	
PVSS	24	
C1N	23	
C1P	22	
C2N	21	
C2P	20	
VINT	19	
PVDD	18	
VSD	17	
VCOMDC	16	
VCAC	15	
VDDA	14	
VSYNC	13	
HSYNC	12	
DCLK	11	
D7	10	
D6	9	
D5	8	
D4	7	
D3	6	
D2	5	
D1	4	
D0	3	
FRP	2	
VCOM2	1	

C014 XX
C016 2.2u
R004 1M
C005 1u
C009 XX
C008 1u
D003 MA2SD32008S0
C013 1u
C004 1u
C006 1u
D004 XX
D005 XX
C002 1u
C003 1u
C015 10u
C007 4.7u
R002 10k
C010 4.7u
C011 1u
C012 10u
L002 10uH

CL003 P_VD
CL004 P_HD
CL005 P_CK
CL006 P_D7
P_D6
P_D5
P_D4
P_D3
P_D2
P_D1
CL007 P_D0

LND003 REG_GND
LND002 STATIC_GND
STATIC_GND
LND001

BL_H
BL_L

P_D0
P_D1
P_D2
P_D3
P_D4
P_D5
P_D6
P_D7
P_HD
P_VD
P_CK

CN002
28P

BL_H	28	
BL_L	27	
REG_GND	26	
REG_GND	25	
REG_GND	24	
D0	23	
D1	22	
D2	21	
D3	20	
D4	19	
D5	18	
D6	17	
D7	16	
HD	15	
VD	14	
REG_GND	13	
LCD_CK	12	
REG_GND	11	
REG_GND	10	
REG_GND	9	
XIC_211_2_SCK	8	
IC_211_2_SO	7	
XCS_PANEL	6	
REG_GND	5	
XDD_SYS_RST	4	
D_1.8V	3	
P_6.4V	2	
D_3V	1	

CK-181
FLEXIBLE BOARD

SY TO CK RELAY

LND033 GND
LND032 GND

LND028	BL_H	1
LND027	BL_L	2
LND026	REG_GND	3
LND025	REG_GND	4
LND024	REG_GND	5
LND023	D0	6
LND022	D1	7
LND021	D2	8
LND020	D3	9
LND019	D4	10
LND018	D5	11
LND017	D6	12
LND016	D7	13
LND015	HD	14
LND014	VD	15
LND013	REG_GND	16
LND012	LCD_CK	17
LND011	REG_GND	18
LND010	REG_GND	19
LND009	REG_GND	20
LND008	XIC_211_2_SCK	21
LND007	IC_211_2_SO	22
LND006	XCS_PANEL	23
LND005	REG_GND	24
LND004	XDD_SYS_RST	25
LND001	D_3.0V	28

CN001
30P

30	D0	
29	BL_H	
28	D1	
27	BL_L	
26	D2	
25	REG_GND	
24	D3	
23	REG_GND	
22	D4	
21	REG_GND	
20	D5	
19	REG_GND	
18	D6	
17	REG_GND	
16	D7	
15	XIC_211_2_SCK	
14	HD	
13	IC_211_2_SO	
12	VD	
11	XCS_PANEL	
10	REG_GND	
9	REG_GND	
8	LCD_CK	
7	XDD_SYS_RST	
6	REG_GND	
5	NC	
4	REG_GND	
3	NC	
2	REG_GND	
1	D_3.0V	

GND LND035
GND LND034

TO
SY-177
BOARD
CN709
(PAGE 4-7
of LEVEL3)

02

DSC-H9

CK-179 BOARD

XX MARK:NO MOUNT

SY TO LCD RELAY

3.0INCH COLOR LCD PANEL

LCD901 (LCD UNIT)

CN001 39P

BL_H	1	
BL_L	2	
BL_L	3	
COM	4	
GND	5	
D0	6	CL001 P_D0
D1	7	P_D1
D2	8	P_D2
D3	9	P_D3
D4	10	P_D4
D5	11	P_D5
D6	12	P_D6
D7	13	CL002 P_D7
DCK	14	CL003 P_CK
HD	15	CL004 P_HD
VD	16	CL005 P_VD
SCK	17	
SI	18	
XCS	19	
RESET	20	
OUT5.3V	21	C010 1u
COMDC	22	
VBRT	23	C009 10u, C008 4.7u
COMAC	24	
OUT71V	25	C007 1u
C71CFP	26	R004 270, C014 0.1u
C71CFN	27	
C3LCFP	28	C006 0.1u
C3LCFN	29	C005 1u
OUT3LV	30	C003 0.047u, C004 0.47u
C61LCFN	31	
OUT61LV	32	R005 270, C002 1u, R001 XX
C61LCFP	33	
OUT58V	34	C001 1u
OUT18V	35	
VCCI	36	
VCC2(6.4V)	37	L002 10uH
VCC(3V)	38	L001 10uH
GND	39	C011 10u, C012 10u, C015 XX, C013 XX

C018 XX

P_D0 P_D1 P_D2 P_D3 P_D4 P_D5 P_D6 P_D7 P_HD P_VD P_CK

CN002 28P

28	BL_H	
27	BL_L	
26	REG_GND	
25	REG_GND	
24	REG_GND	
23	D0	P_D0
22	D1	P_D1
21	D2	P_D2
20	D3	P_D3
19	D4	P_D4
18	D5	P_D5
17	D6	P_D6
16	D7	P_D7
15	HD	P_HD
14	VD	P_VD
13	REG_GND	
12	LCD_CK	P_CK
11	REG_GND	
10	REG_GND	
9	REG_GND	
8	XIC_211_2_SCK	
7	IC_211_2_SO	
6	XCS_PANEL	
5	REG_GND	
4	XDD_SYS_RST	
3	D_1.8V	
2	P_6.4V	
1	D_3V	

STATIC_GND LND001

CK-182 FLEXIBLE BOARD

SY TO CK RELAY

LND031 GND1 LND032 GND1

LND028	BL_H 1	
LND027	BL_L 2	
LND026	REG_GND 3	
LND025	REG_GND 4	
LND024	REG_GND 5	
LND023	D0 6	
LND022	D1 7	
LND021	D2 8	
LND020	D3 9	
LND019	D4 10	
LND018	D5 11	
LND017	D6 12	
LND016	D7 13	
LND015	HD 14	
LND014	VD 15	
LND013	REG_GND 16	
LND012	LCD_CK 17	
LND011	REG_GND 18	
LND010	REG_GND 19	
LND009	REG_GND 20	
LND008	XIC_211_2_SCK 21	
LND007	IC_211_2_SO 22	
LND006	XCS_PANEL 23	
LND005	REG_GND 24	
LND004	XDD_SYS_RST 25	
LND002	PANEL_6.4V 27	
LND001	D_3.0V 28	

LND030 GND2 LND029 GND2

CN001 30P

30	D0	
29	BL_H	
28	D1	
27	BL_L	
26	D2	
25	REG_GND	
24	D3	
23	REG_GND	
22	D4	
21	REG_GND	
20	D5	
19	REG_GND	
18	D6	
17	REG_GND	
16	D7	
15	XIC_211_2_SCK	
14	HD	
13	IC_211_2_SO	
12	VD	
11	XCS_PANEL	
10	REG_GND	
9	REG_GND	
8	LCD_CK	
7	XDD_SYS_RST	
6	REG_GND	
5	NC	
4	REG_GND	
3	PANEL_6.4V	
2	REG_GND	
1	D_3.0V	

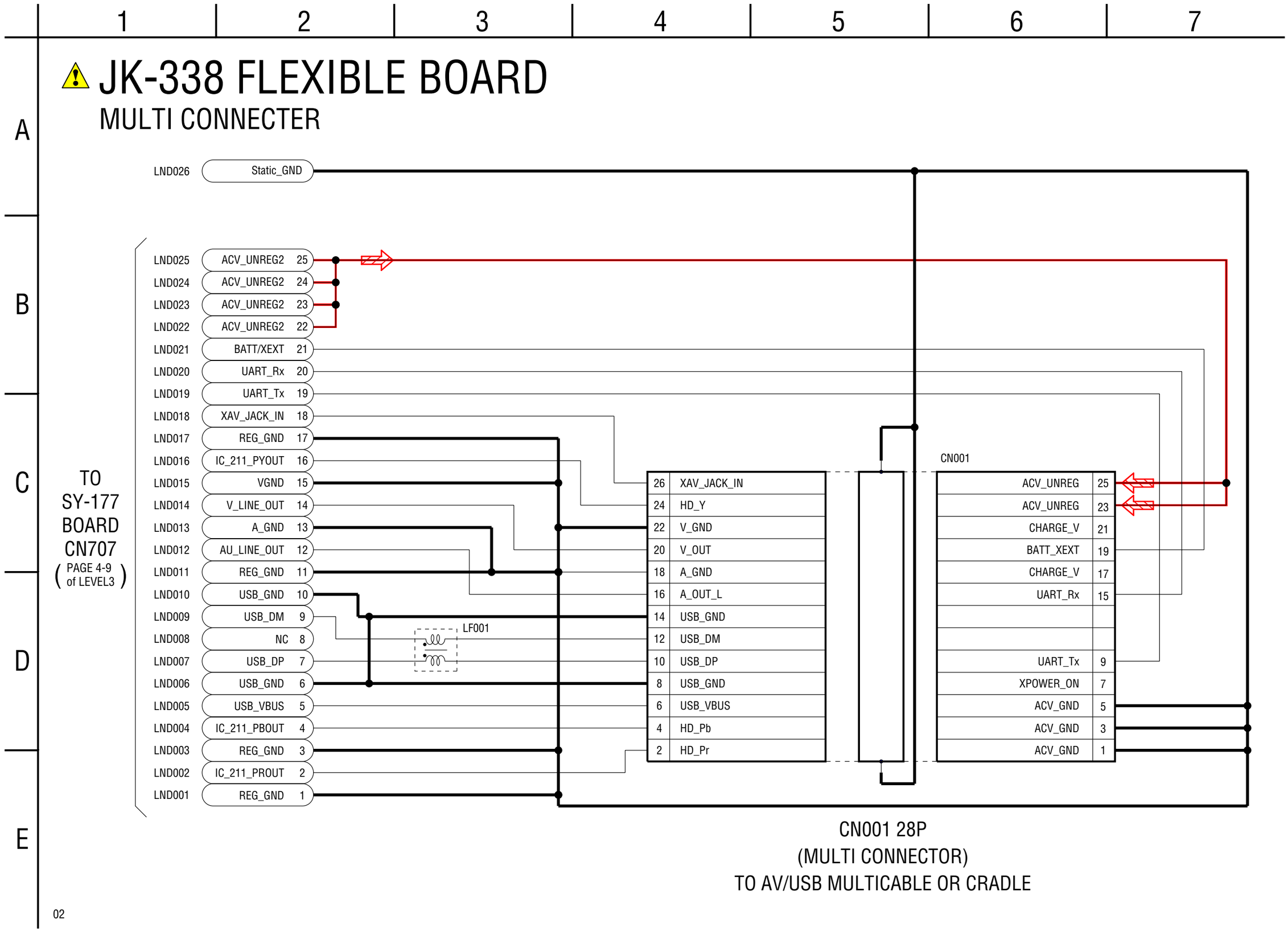
TO SY-177 BOARD CN709 (PAGE 4-7 of LEVEL3)

02

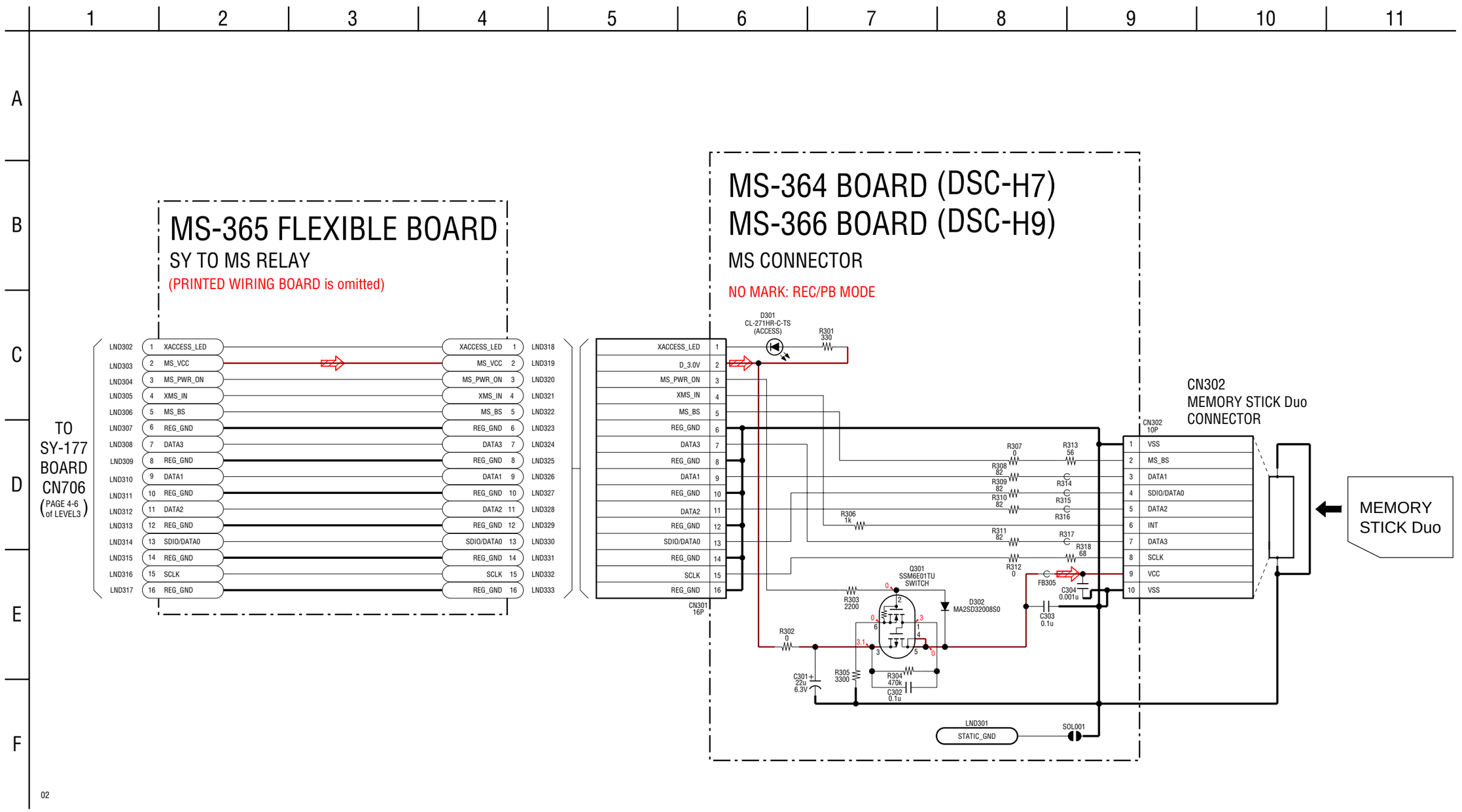
• Refer to page 4-2 for mark ⚠.

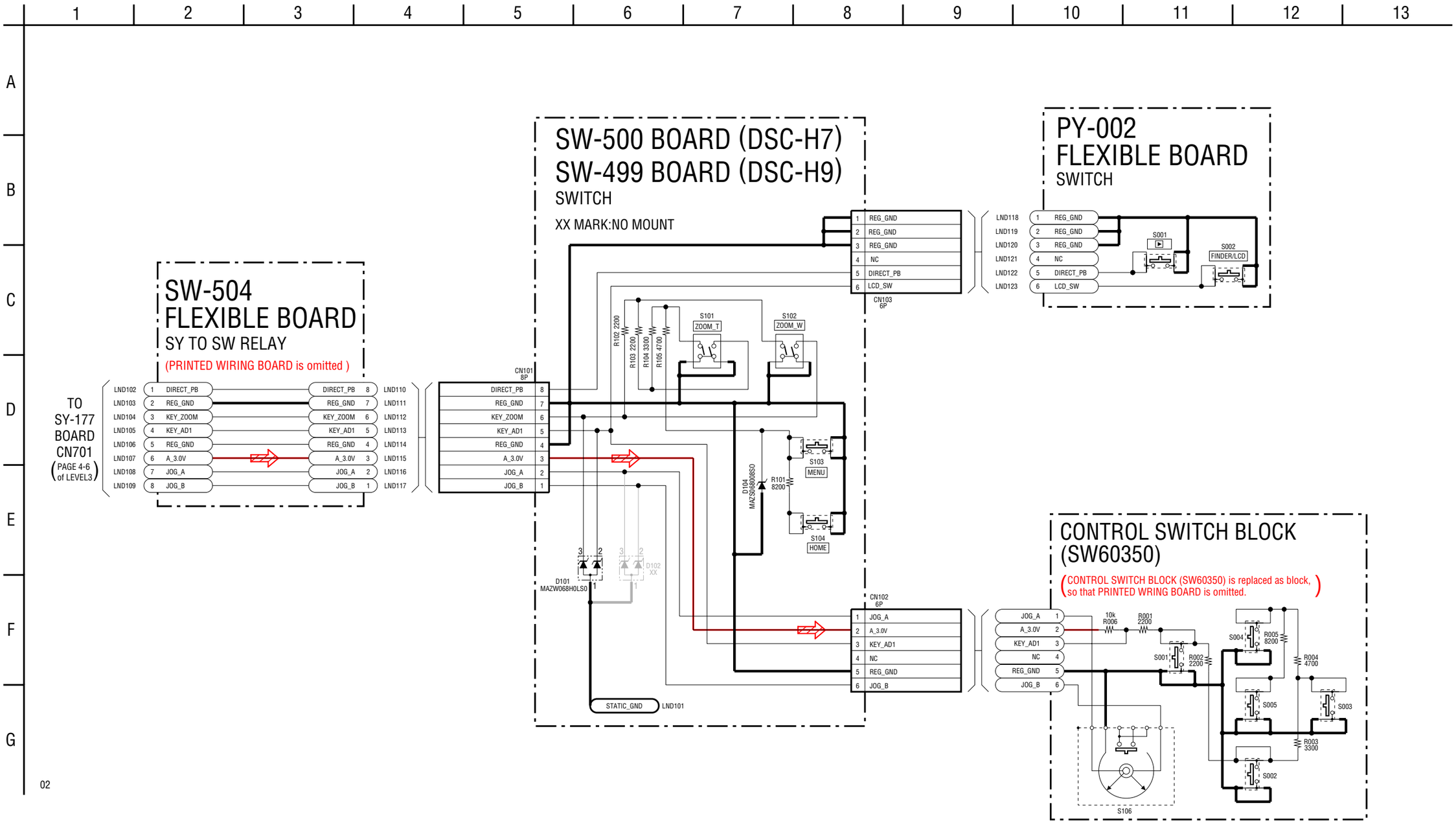
⚠ JK-338 FLEXIBLE BOARD

MULTI CONNECTER

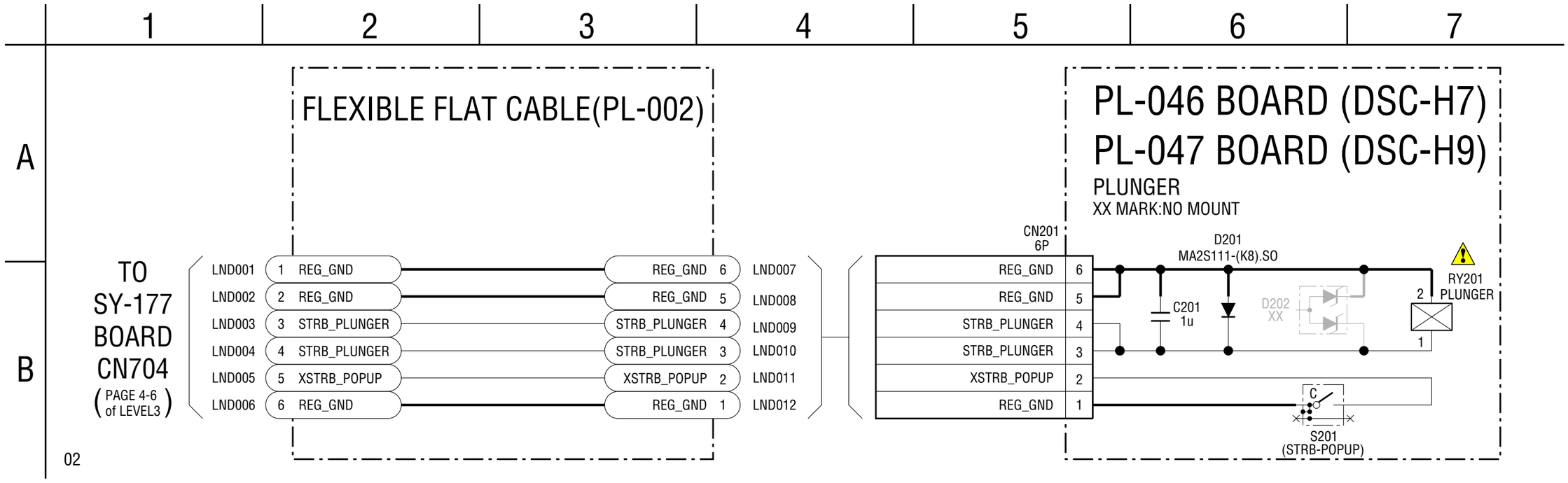


CN001 28P
(MULTI CONNECTOR)
TO AV/USB MULTICABLE OR CRADLE

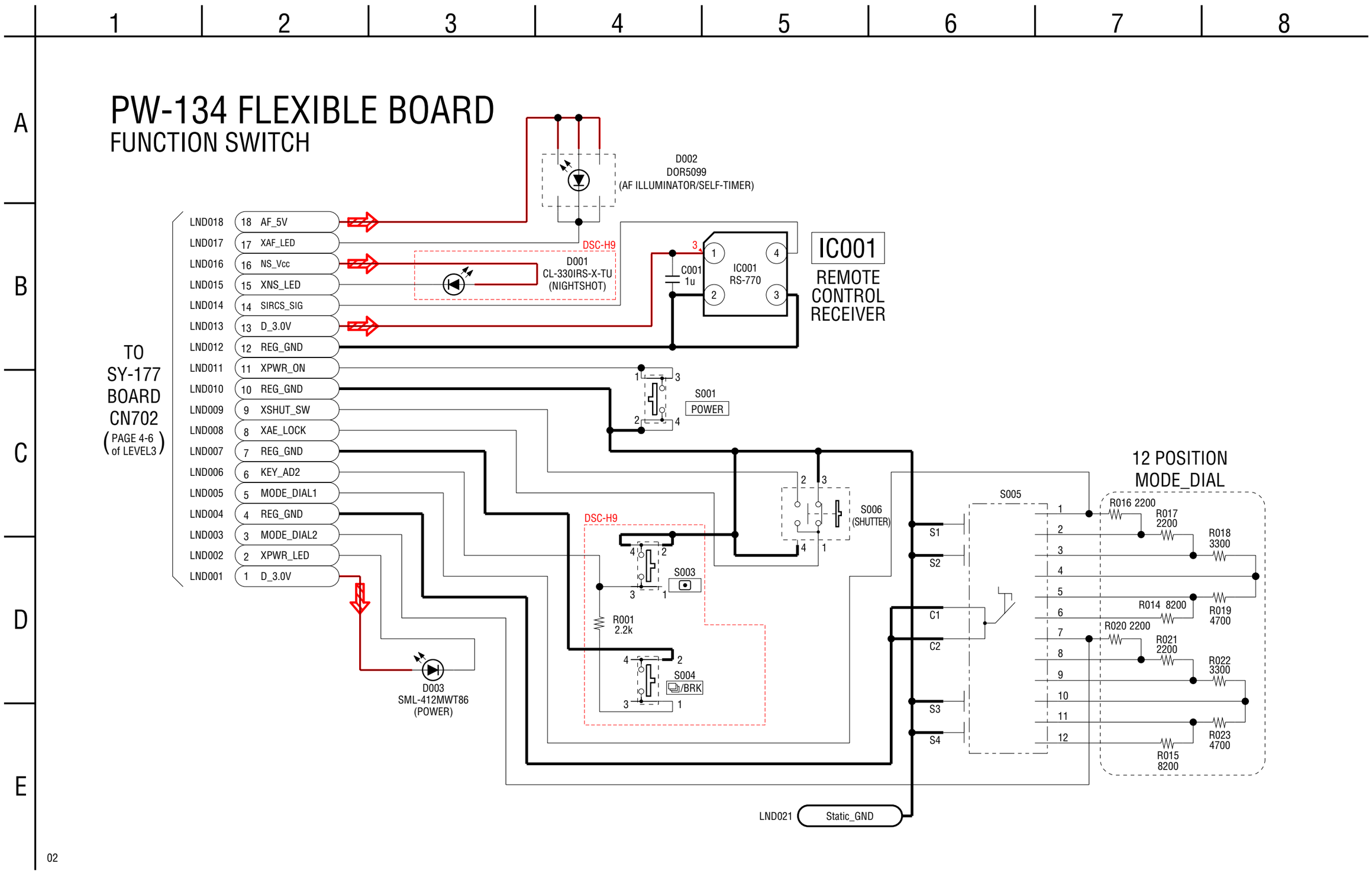

MS-365 FLEXIBLE BOARD
SY TO MS RELAY
(PRINTED WIRING BOARD is omitted)
MS-364 BOARD (DSC-H7)
MS-366 BOARD (DSC-H9)
MS CONNECTOR
NO MARK: REC/PB MODE
TO SY-177 BOARD CN706 (PAGE 4-6 of LEVEL3)
CN302 MEMORY STICK Duo CONNECTOR
MEMORY STICK Duo
CN301 16P
CN302 10P
D301 CL-271HR-C-TS (ACCESS)
R301 330
D302 MA2SD32008S0
Q301 SSM6E01TU SWITCH
R302 0
R303 2200
R304 470k
R305 3300
R306 1K
R307 0
R308 82
R309 82
R310 82
R311 82
R312 0
R313 56
R314
R315
R316
R317
R318 68
FB305
C301 22u 6.3V
C302 0.1u
C303 0.1u
C304 0.001u
LND301 STATIC_GND
SOL001
XACCESS_LED
MS_VCC
MS_PWR_ON
XMS_IN
MS_BS
REG_GND
DATA3
DATA1
DATA2
SDIO/DATA0
SCLK
D_3.0V
VSS
INT
VCC


SW-504
FLEXIBLE BOARD
SY TO SW RELAY
(PRINTED WIRING BOARD is omitted)
TO
SY-177
BOARD
CN701
(PAGE 4-6
of LEVEL3)
LND102 1 DIRECT_PB
LND103 2 REG_GND
LND104 3 KEY_ZOOM
LND105 4 KEY_AD1
LND106 5 REG_GND
LND107 6 A_3.0V
LND108 7 JOG_A
LND109 8 JOG_B
DIRECT_PB 8 LND110
REG_GND 7 LND111
KEY_ZOOM 6 LND112
KEY_AD1 5 LND113
REG_GND 4 LND114
A_3.0V 3 LND115
JOG_A 2 LND116
JOG_B 1 LND117
SW-500 BOARD (DSC-H7)
SW-499 BOARD (DSC-H9)
SWITCH
XX MARK:NO MOUNT
CN101
8P
DIRECT_PB 8
REG_GND 7
KEY_ZOOM 6
KEY_AD1 5
REG_GND 4
A_3.0V 3
JOG_A 2
JOG_B 1
R102 2200
R103 2200
R104 3300
R105 4700
S101
ZOOM_T
S102
ZOOM_W
D104
MAZS068008S0
R101
8200
S103
MENU
S104
HOME
D101
MAZW068H0LS0
D102
XX
CN103
6P
1 REG_GND
2 REG_GND
3 REG_GND
4 NC
5 DIRECT_PB
6 LCD_SW
CN102
6P
1 JOG_A
2 A_3.0V
3 KEY_AD1
4 NC
5 REG_GND
6 JOG_B
STATIC_GND
LND101
PY-002
FLEXIBLE BOARD
SWITCH
LND118 1 REG_GND
LND119 2 REG_GND
LND120 3 REG_GND
LND121 4 NC
LND122 5 DIRECT_PB
LND123 6 LCD_SW
S001
S002
FINDER/LCD
CONTROL SWITCH BLOCK
(SW60350)
(CONTROL SWITCH BLOCK (SW60350) is replaced as block,
so that PRINTED WRING BOARD is omitted.)
JOG_A 1
A_3.0V 2
KEY_AD1 3
NC 4
REG_GND 5
JOG_B 6
10k
R006
R001
2200
S001
R002
2200
S004
R005
8200
R004
4700
S005
S003
R003
3300
S002
S106

• Refer to page 4-2 for mark ⚠.



PW-134 FLEXIBLE BOARD
FUNCTION SWITCH

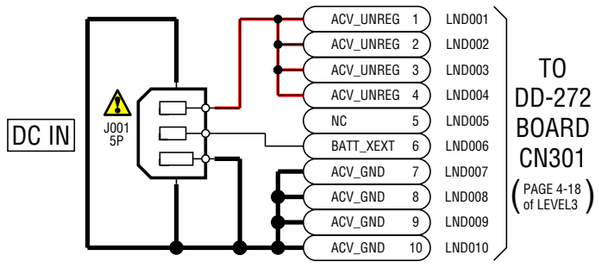


Schematic diagrams of the DD-272 board is not shown.
Pages from 4-18 to 4-20 are not shown.

• Refer to page 4-2 for mark ⚠.

DC-107 FLEXIBLE BOARD

DC IN

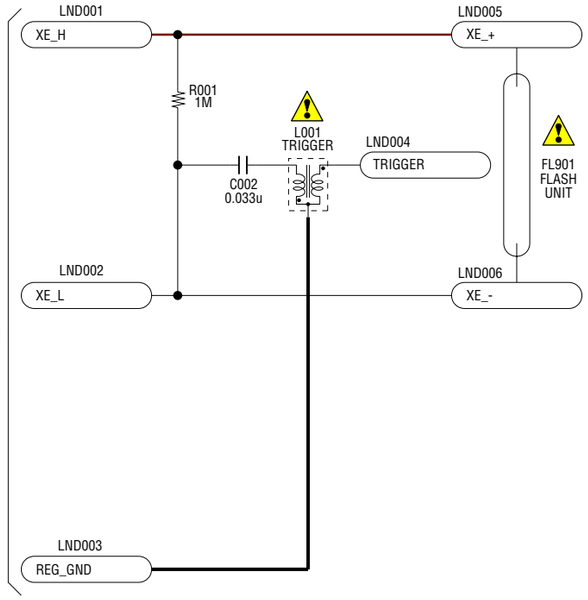


02

⚠ST-166 FLEXIBLE BOARD

FLASH UNIT

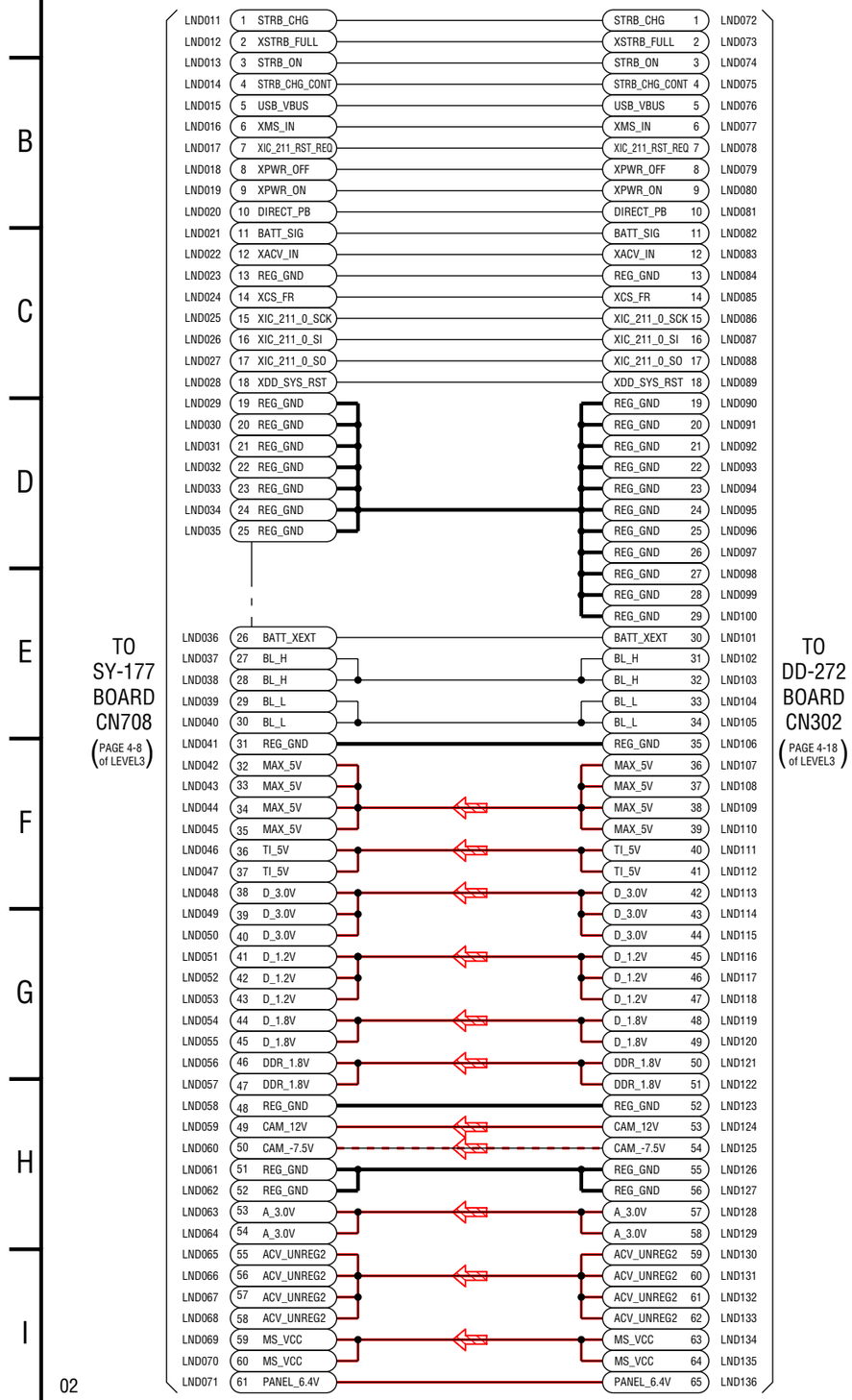
(FL901 is not included in the ST-166 flexible board.)



02

DD-273 FLEXIBLE BOARD

SY TO DD RELAY (PRINTED WIRING BOARD is omitted)



02

4-3. PRINTED WIRING BOARDS

Link

CD-703 FLEXIBLE BOARD	PY-002 FLEXIBLE BOARD
CK-180 BOARD: DSC-H7	SW-499 BOARD: DSC-H9
CK-181 FLEXIBLE BOARD: DSC-H7	SW-500 BOARD: DSC-H7
CK-179 BOARD: DSC-H9	PL-046 BOARD: DSC-H7
CK-182 FLEXIBLE BOARD: DSC-H9	PL-047 BOARD: DSC-H9
JK-338 BOARD	PW-134 FLEXIBLE BOARD
MS-364 BOARD: DSC-H7	DC-107 FLEXIBLE BOARD
MS-366 BOARD: DSC-H9	ST-166 FLEXIBLE BOARD

COMMON NOTE FOR PRINTED WIRING BOARDS

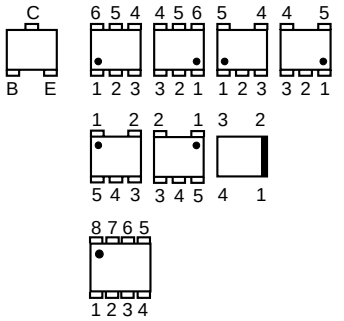
4-3. PRINTED WIRING BOARDS

THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS

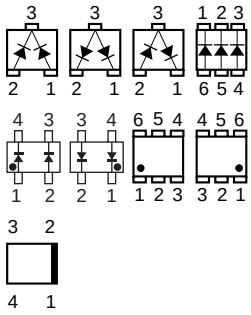
- : Uses unleaded solder.
- : Circuit board
  : Flexible board
  Pattern from the side which enables seeing.
  : pattern of the rear side
  (The other layers' patterns are not indicated)
- Through hole is omitted.
- There are a few cases that the part printed on diagram isn't mounted in this model.
- : panel designation

- Chip parts.

Transistor



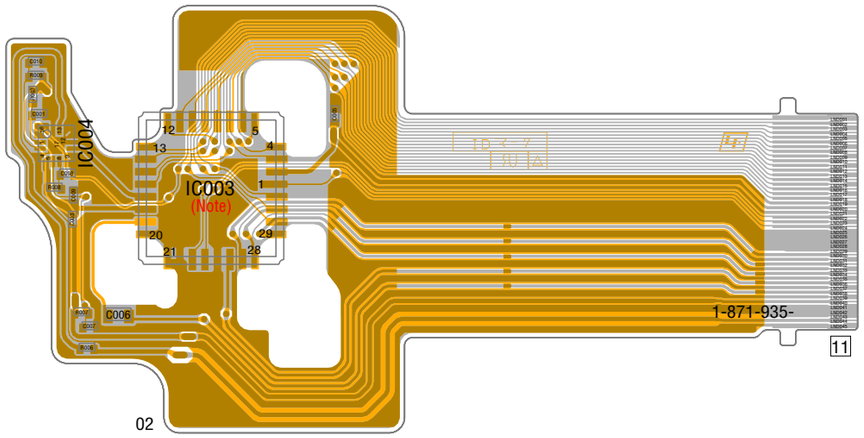
Diode



Printed wiring boards of the SY-177 and DD-272 boards are not shown.
Pages from 4-23 to 4-24 are not shown.

: Uses unleaded solder.

CD-703 FLEXIBLE BOARD (Note)

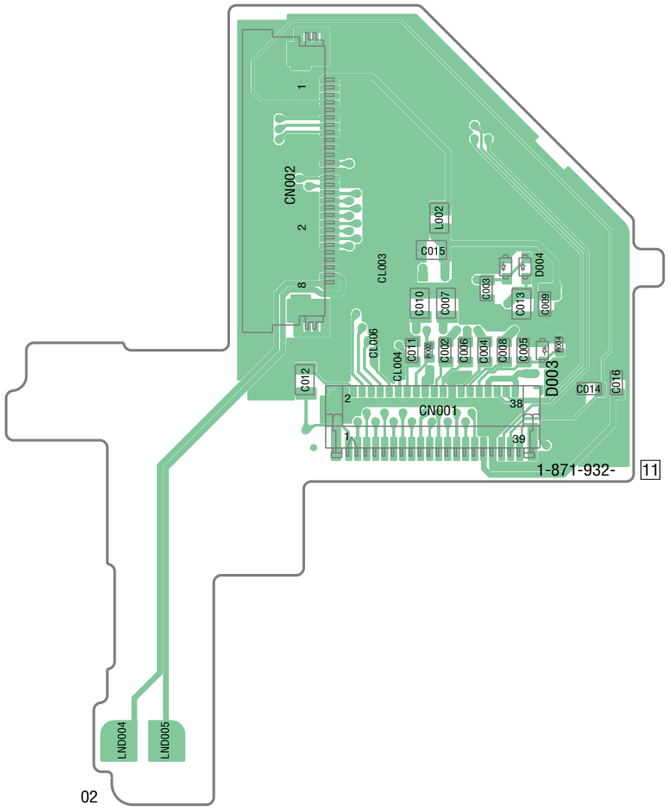


Note: CD-703 flexible board and IC003 are not supplied, they are included in CCD BLOCK ASSY.

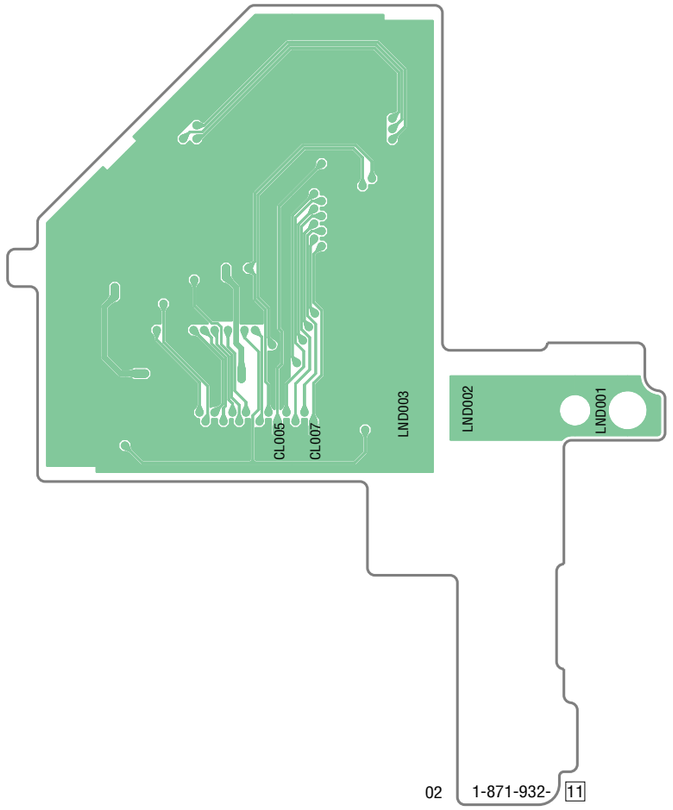
DSC-H7

CK-181 FLEXIBLE BOARD

CK-180 BOARD (SIDE A)



CK-180 BOARD (SIDE B)

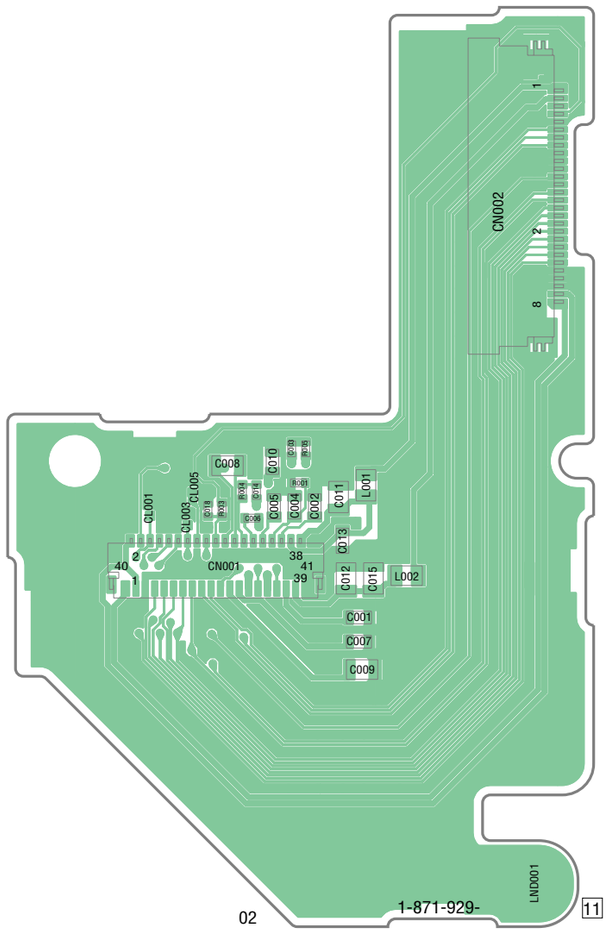


CK-179 (2 layers), CK-182 (1 layer)

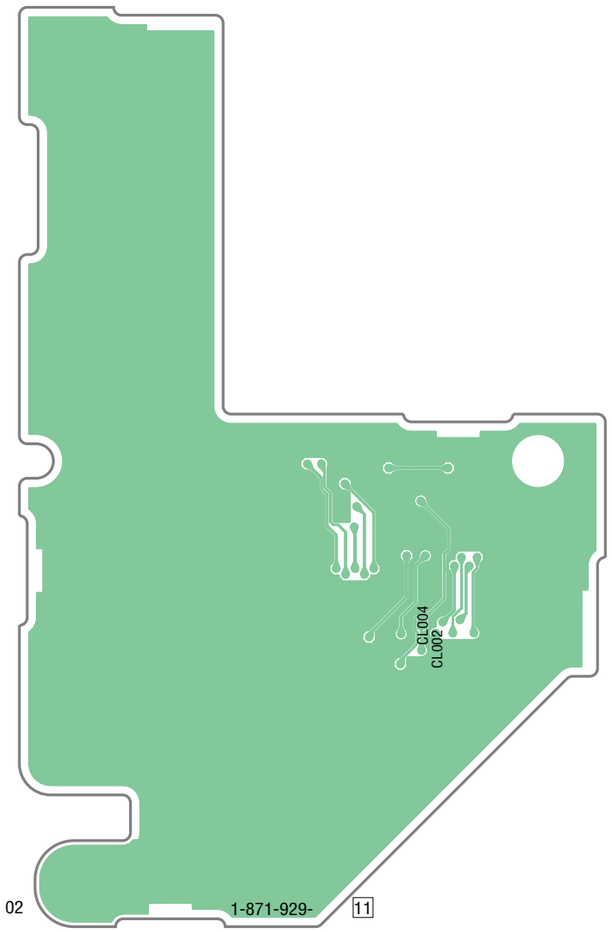
: Uses unleaded solder.

DSC-H9

CK-179 BOARD (SIDE A)



CK-179 BOARD (SIDE B)

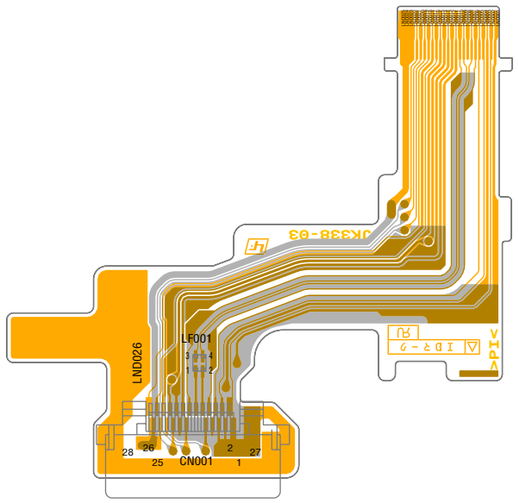


CK-182 FLEXIBLE BOARD

JK-338 (2 layers), MS-364 (2 layers), MS-366 (2 layers)

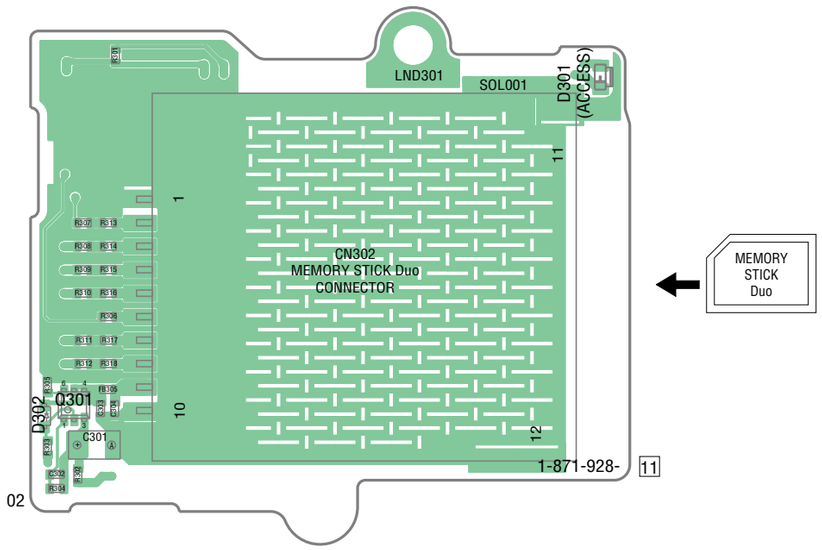
: Uses unleaded solder.

JK-338 FLEXIBLE BOARD



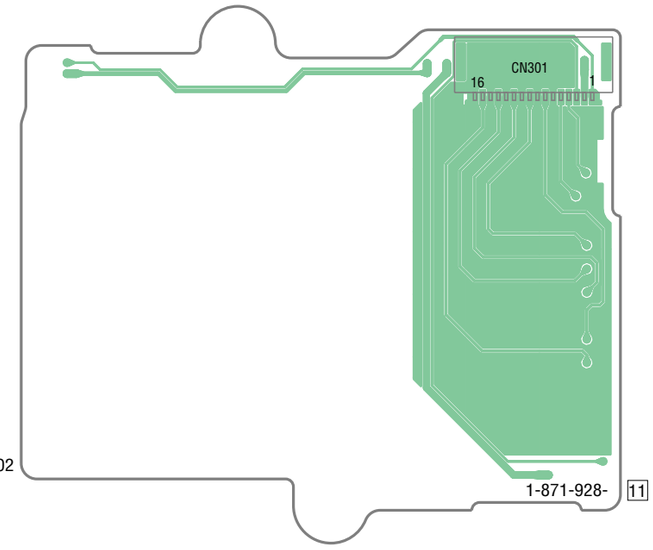
DSC-H7

MS-364 BOARD (SIDE A)



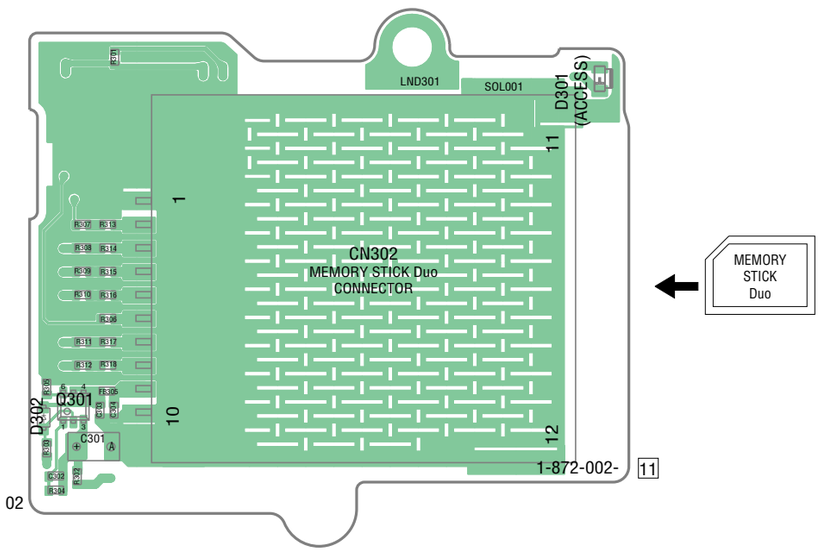
MEMORY STICK Duo

MS-364 BOARD (SIDE B)



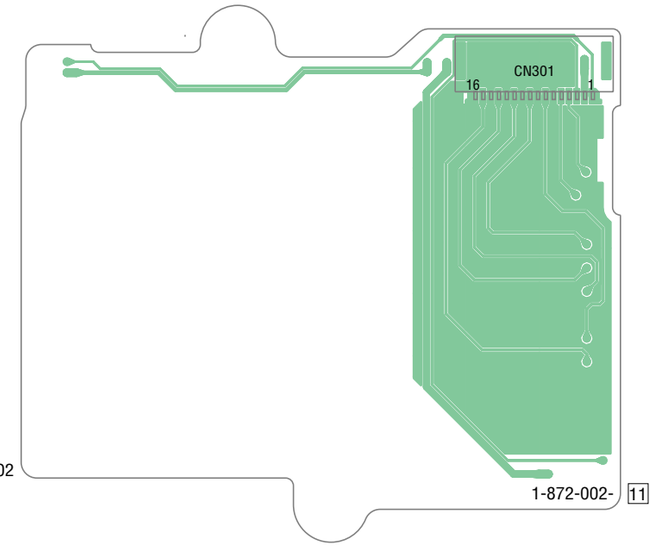
DSC-H9

MS-366 BOARD (SIDE A)



MEMORY STICK Duo

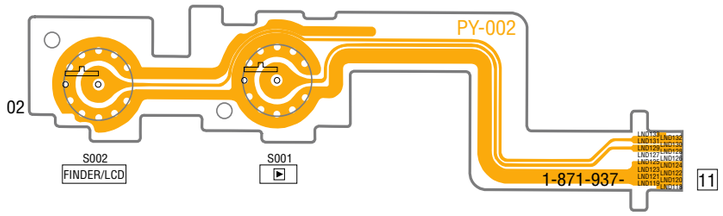
MS-366 BOARD (SIDE B)



PY-002 (1 layer), SW-499 (2 layers), SW-500 (2 layers)

: Uses unleaded solder.

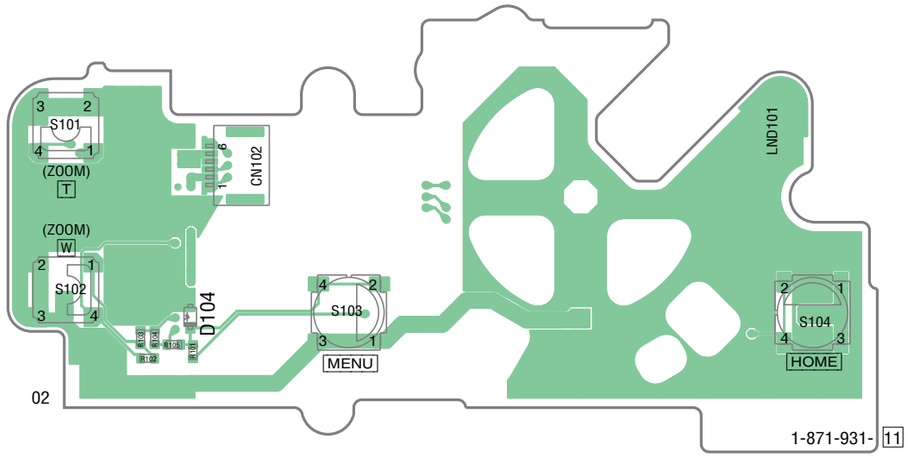
PY-002 FLEXIBLE BOARD



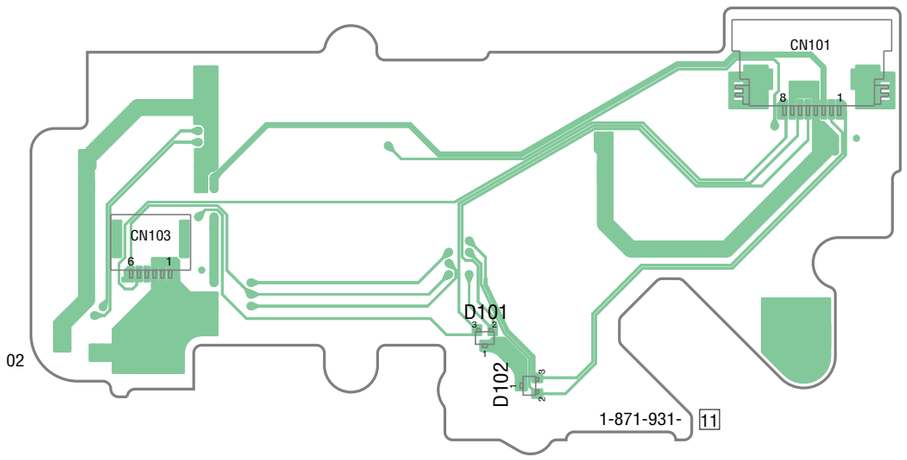
Note: S001 and S002 are not supplied, but they are included in the PY-002 flexible board.

DSC-H9

SW-499 BOARD (SIDE A)

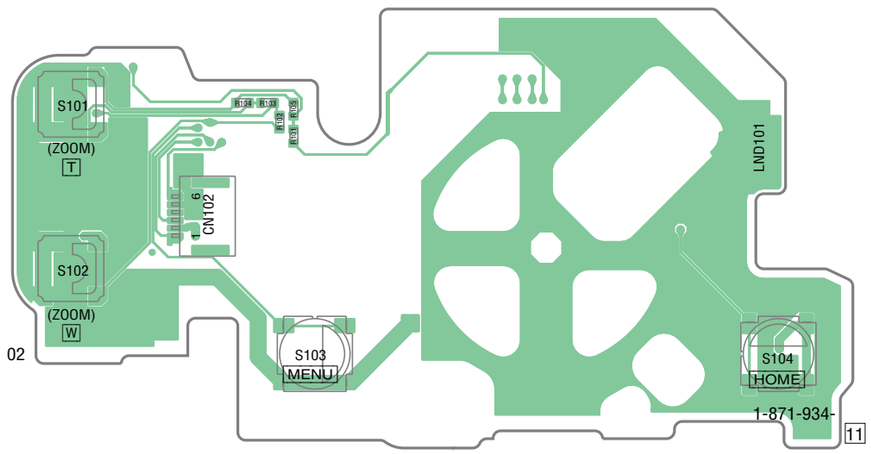


SW-499 BOARD (SIDE B)

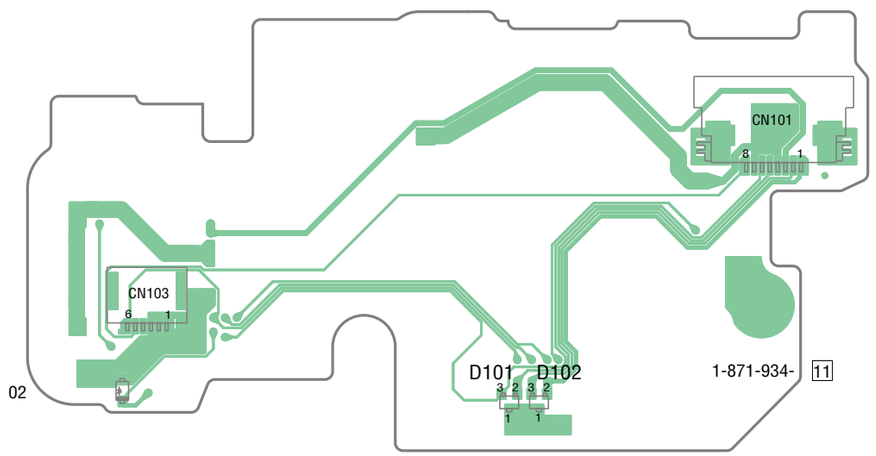


DSC-H7

SW-500 BOARD (SIDE A)

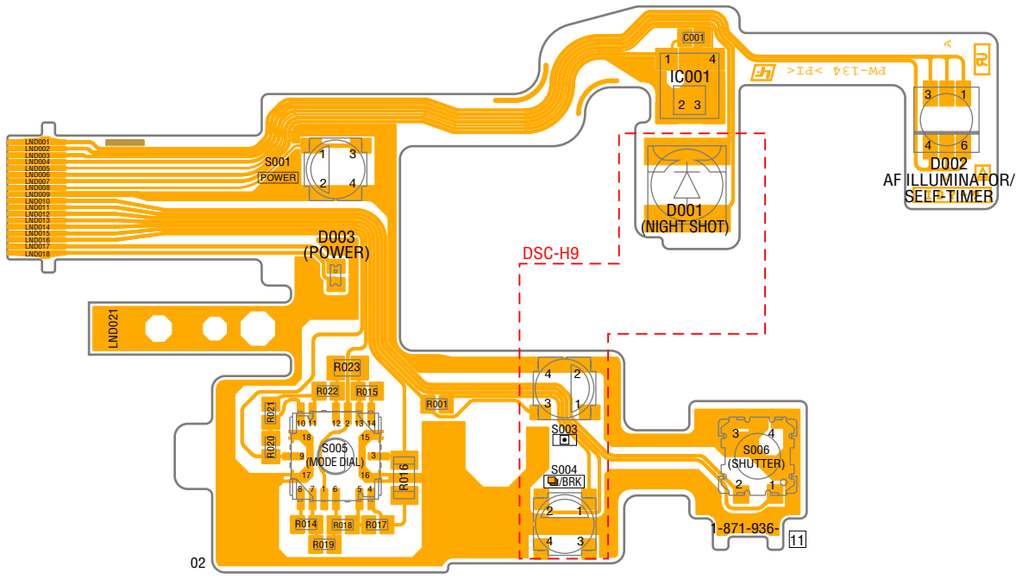


SW-500 BOARD (SIDE B)

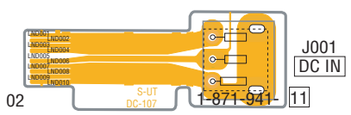


: Uses unleaded solder.

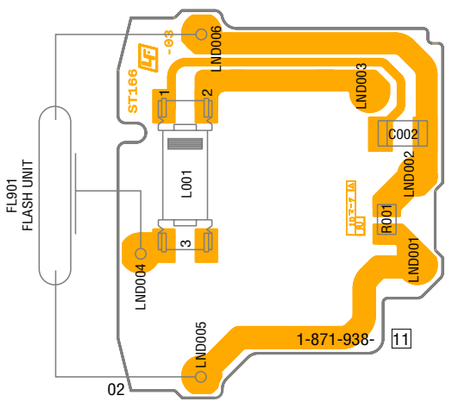
PW-134 FLEXIBLE BOARD



DC-107 FLEXIBLE BOARD

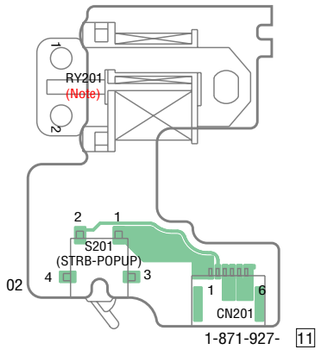


ST-166 FLEXIBLE BOARD

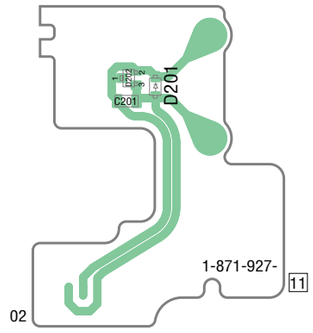


DSC-H7

PL-046 BOARD (SIDE A)



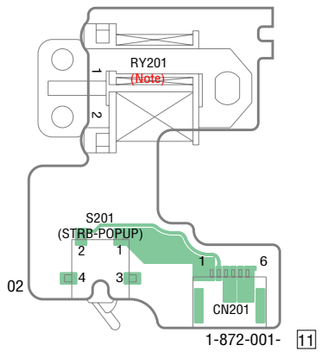
PL-046 BOARD (SIDE B)



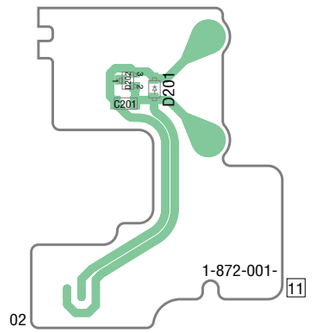
Note: RY201 is not included in the PL-046 complete board.

DSC-H9

PL-047 BOARD (SIDE A)



PL-047 BOARD (SIDE B)



Note: RY201 is not included in the PL-047 complete board.

Note: FL901 is not included in the ST-166 flexible board.

Mounted parts location of the SY-177 and DD-272 boards are not shown.
Page 4-30 to 4-31 is not shown.

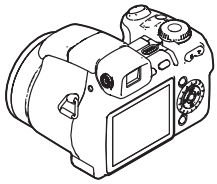
NOTE

5. REPAIR PARTS LIST

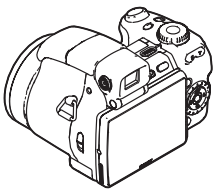
NOTE: Characters A to Z of the electrical parts list indicate location of exploded views in which the desired part is shown.

Link

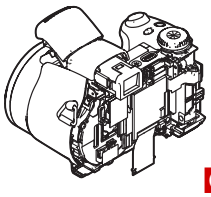
EXPLODED VIEWS



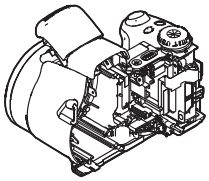
A OVERALL SECTION:DSC-H7



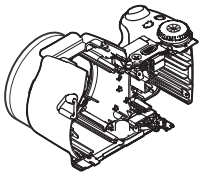
B OVERALL SECTION:DSC-H9



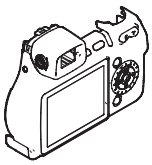
C CABINET (FRONT) SECTION-1



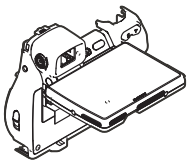
D CABINET (FRONT) SECTION-2



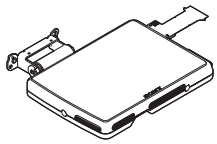
E CABINET (FRONT) SECTION-3



F CABINET (REAR) SECTION:DSC-H7



G CABINET (REAR) SECTION:DSC-H9



H LCD SECTION:DSC-H9

Link

ELECTRICAL PARTS LIST

ACCESSORIES

CD-703 FLEXIBLE BOARD C	JK-338 BOARD A B	PY-002 FLEXIBLE BOARD F G
CK-179 BOARD:DSC-H9 H	MS-364 BOARD:DSC-H7 D	ST-166 FLEXIBLE BOARD D
CK-180 BOARD:DSC-H7 F	MS-365 FLEXIBLE BOARD D	SW-499 BOARD:DSC-H9 G
CK-181 FLEXIBLE BOARD:DSC-H7 F	MS-366 BOARD:DSC-H9 D	SW-500 BOARD:DSC-H7 F
CK-182 FLEXIBLE BOARD:DSC-H9 H	PL-046 BOARD:DSC-H7 D	SW-504 FLEXIBLE BOARD F G
DC-107 FLEXIBLE BOARD D	PL-047 BOARD:DSC-H9 D	
DD-273 FLEXIBLE BOARD D	PW-134 FLEXIBLE BOARD E	

5. REPAIR PARTS LIST

NOTE:

- -XX, -X mean standardized parts, so they may have some differences from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- CAPACITORS:
  uF: µF
- COILS
  uH: µH
- RESISTORS
  All resistors are in ohms.
  METAL: metal-film resistor
  METAL OXIDE: Metal Oxide-film resistor
  F: nonflammable
- SEMICONDUCTORS
  In each case, u: µ, for example:
  uA...: µA... , uPA... , µPA... ,
  uPB... , µPB... , µPC... , µPC... ,
  uPD..., µPD...
- Abbreviation
  AR : Argentine model
  AUS : Australian model
  BR : Brazilian model
  CH : Chinese model
  CND : Canadian model
  HK : Hong Kong model
  J : Japanese model
  JE : Tourist model
  KR : Korea model

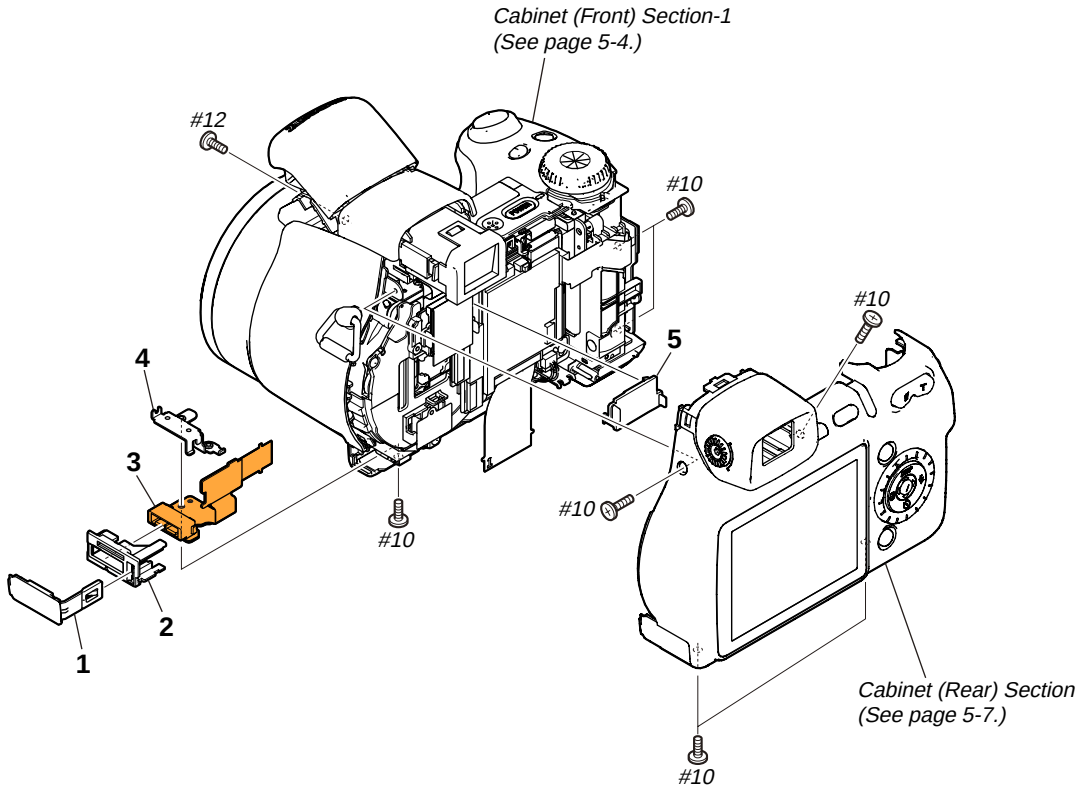
When indicating parts by reference number, please include the board name.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

5-1. EXPLODED VIEWS

5-1-1. OVERALL SECTION : DSC-H7

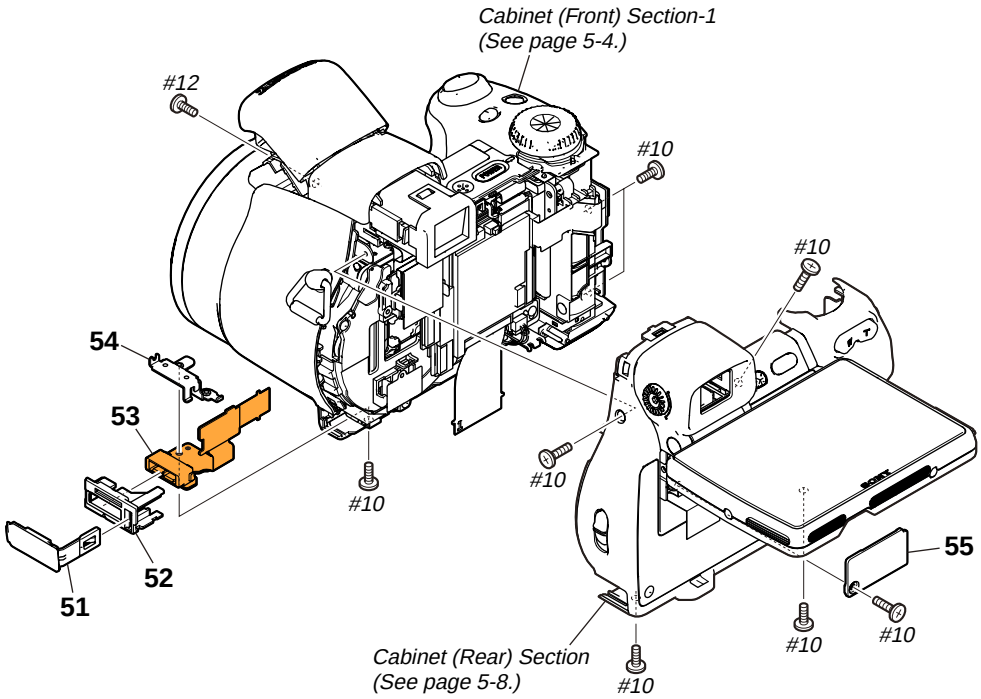


Ref. No.	Part No.	Description
1	3-106-776-01	LID, JACK (SILVER)
1	3-106-776-11	LID, JACK (BLACK)
* 2	3-106-777-01	HOLDER, MULTI (SILVER)
* 2	3-106-777-11	HOLDER, MULTI (BLACK)
3	A-1251-450-A	JK-338 BOARD, COMPLETE

Ref. No.	Part No.	Description
* 4	3-106-778-01	PLATE, MULTI FIXED
* 5	3-106-780-01	HOLDER, FPC (H7)
#10	2-599-475-31	SCREW (M1.7) (Silver)
#12	3-080-204-21	SCREW, TAPPING, P2 (Black)

5-1-2. OVERALL SECTION : DSC-H9

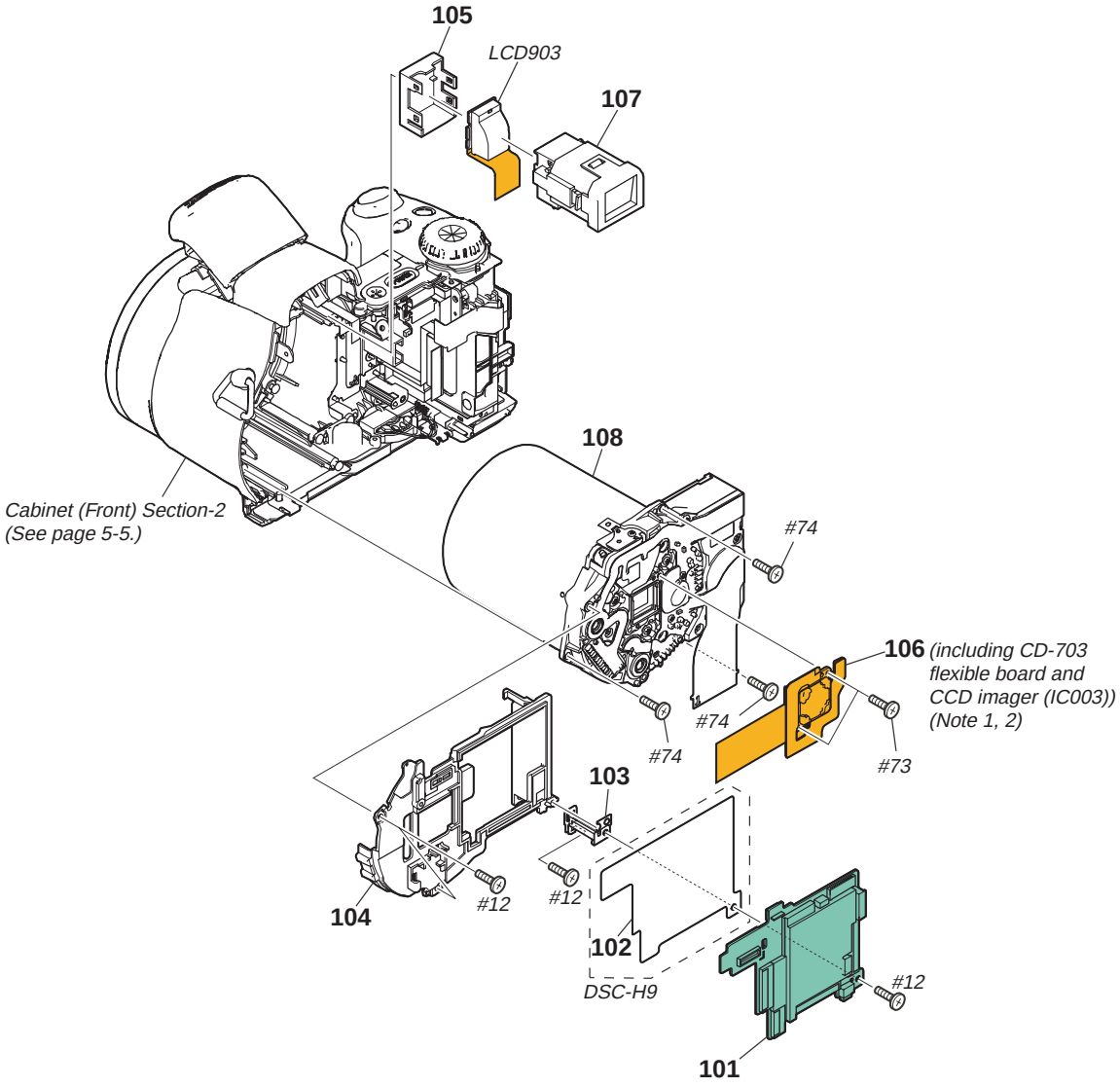
DISASSEMBLY HARDWARE LIST



Ref. No.	Part No.	Description
51	3-106-776-01	LID, JACK (SILVER)
51	3-106-776-11	LID, JACK (BLACK)
* 52	3-106-777-01	HOLDER, MULTI (SILVER)
* 52	3-106-777-11	HOLDER, MULTI (BLACK)
53	A-1251-450-A	JK-338 BOARD, COMPLETE
* 54	3-106-778-01	PLATE, MULTI FIXED

Ref. No.	Part No.	Description
* 55	3-106-782-01	LID, SY BLIND (SILVER)
* 55	3-106-782-11	LID, SY BLIND (BLACK)
#10	2-599-475-31	SCREW (M1.7) (Silver)
#12	3-080-204-21	SCREW, TAPPING, P2 (Black)

5-1-3. CABINET (FROMT) SECTION-1



Note 1: CCD部組はマウント済D-703 フレキシブル基板を含みます。

Note 1: CCD block assembly is including CD-703 flexible completed board.

Note 2: イメージャ交換は4-2ページの "Precautions for Replacement of Image"を必ずお読みください。

Note 2: Be sure to read "Precuations for Replacement of Imager" on page 4-2.

Ref. No.	Part No.	Description
101	A-1256-807-A	SY-177 BOARD, COMPLETE (SERVICE) (H7)
101	A-1256-808-A	SY-177 BOARD, COMPLETE (SERVICE) (H9)
* 102	3-211-271-01	SHEET, SY RADIATION, (H9)
* 103	3-106-773-01	PLATE, SY GROUND
* 104	3-106-772-01	FRAME, SY
* 105	3-106-681-01	RETAINER, MODULE
106	A-1251-208-A	CCD BLOCK ASSY
107	X-2177-453-1	VF ASSY

Ref. No.	Part No.	Description
108	A-1268-104-A	LENS BLOCK ASSY (SERVICE USE)
LCD903	1-802-033-12	LCD MODULE
#12	3-080-204-21	SCREW, TAPPING, P2 (Black)
#73	3-086-156-61	SCREW B1.2 (Black)
#74	2-666-551-31	SCREW, TAPPING, P2 (Silver)

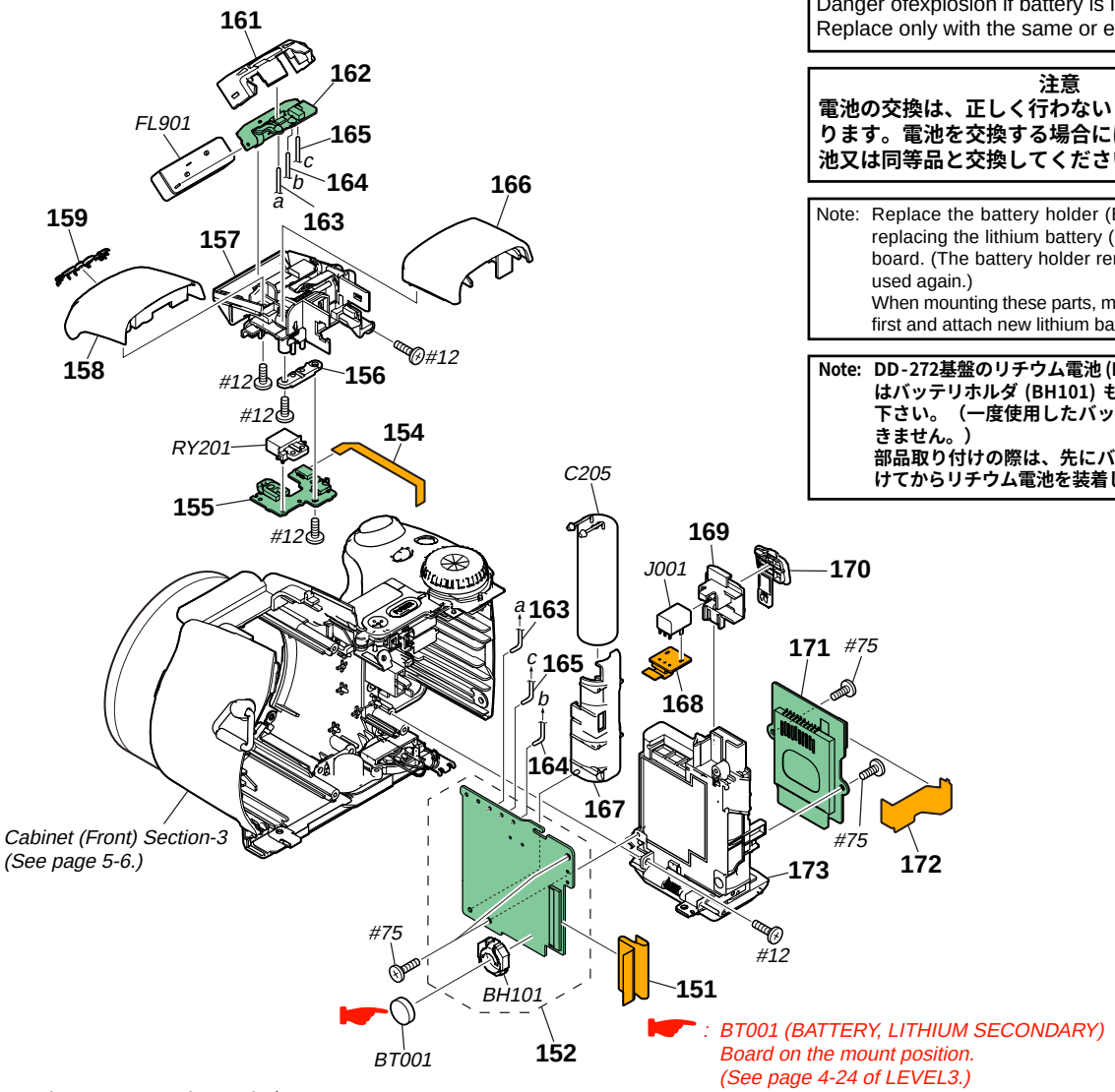
5-1-4. CABINET (FROMT) SECTION-2

CAUTION
Danger ofexplosion if battery is incorrectly replaced.
Replace only with the same or equivalent type.

注意
電池の交換は、正しく行わないと破裂する恐れがあります。電池を交換する場合には必ず同じ型名の電池又は同等品と交換してください。

Note: Replace the battery holder (BH101) together when replacing the lithium battery (BT001) on the DD-272 board. (The battery holder removed once cannot be used again.)
When mounting these parts, mount new battery holder first and attach new lithium battery next.

Note: DD-272基盤のリチウム電池 (BT001) を交換する場合はバッテリホルダ (BH101) も同時に新品に交換して下さい。（一度使用したバッテリホルダは再使用できません。）
部品取り付けの際は、先にバッテリホルダを取り付けてからリチウム電池を装着して下さい。



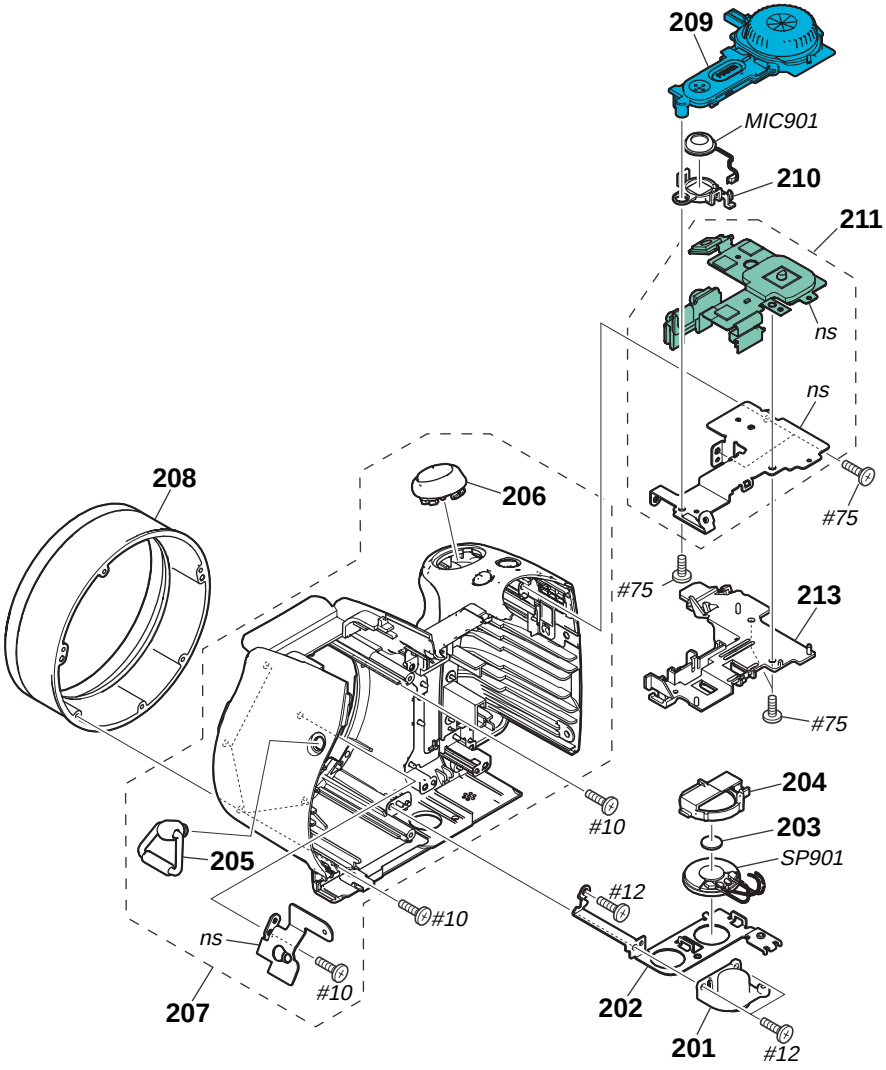
• Refer to page 5-1 for mark ⚠.

Ref. No.	Part No.	Description
151	1-871-952-11	DD-273 FLEXIBLE BOARD
152	A-1251-444-A	DD-272 BOARD, COMPLETE (H7)
152	A-1251-454-A	DD-272 BOARD, COMPLETE (H9)
154	1-833-691-11	CABLE, FLEXIBLE FLAT (PL-002)
155	A-1251-447-A	PL-046 BOARD, COMPLETE (H7)
155	A-1251-457-A	PL-047 BOARD, COMPLETE (H9)
* 156	3-106-689-01	RETAINER, SOLENOID
157	X-2177-454-1	BASE ASSY, ST
158	3-106-691-01	ST COVER (SILVER)
158	3-106-691-11	ST COVER (BLACK)
159	2-673-341-01	EMBLEM (320), ST (SILVER)
159	2-673-341-11	EMBLEM (320), ST (BLACK)
161	3-106-688-01	COVER, FL
162	A-1251-449-A	ST-166 BOARD, COMPLETE
163	1-965-158-11	HARNESS (HN-042) (PINK)
164	1-965-159-11	HARNESS (HN-043) (WHITE)
165	1-965-160-11	HARNESS (HN-044) (BLUE)
166	3-106-774-01	CABINET (UPPER) (SILVER) (H7)
166	3-106-774-11	CABINET (UPPER) (SILVER) (H9)
166	3-106-774-21	CABINET (UPPER) (BLACK) (H9)

Ref. No.	Part No.	Description
166	3-106-774-31	CABINET (UPPER) (BLACK) (H7)
167	3-106-650-01	HOLDER, CAPACITOR
168	1-871-941-11	DC-107 FLEXIBLE BOARD
169	3-106-649-01	HOLDER, DC (SILVER)
169	3-106-649-11	HOLDER, DC (BLACK)
170	3-106-779-01	LID, DC (SILVER)
170	3-106-779-11	LID, DC (BLACK)
171	A-1251-448-A	MS-364 BOARD, COMPLETE (H7)
171	A-1251-458-A	MS-366 BOARD, COMPLETE (H9)
172	1-871-944-11	MS-365 FLEXIBLE BOARD
173	X-2177-455-1	HOLDER ASSY, BATTERY (SILVER)
173	X-2177-456-1	HOLDER ASSY, BATTERY (BLACK)
⚠BH101	1-756-615-31	HOLDER, BATTERY
⚠BT001	1-756-134-12	BATTERY, STRAGE, LITHIUM ION
⚠C205	1-114-341-11	CAP, ALUMINUM ELECT 180MF
⚠FL901	1-480-062-11	FLASH UNIT
⚠J001	1-817-331-11	DC JACK 5P (DC IN)
⚠RY201	1-455-038-11	SOLENOID, PLUNGER
#12	3-080-204-21	SCREW, TAPPING, P2 (Black)
#75	2-666-551-01	SCREW, TAPPING, P2 (Silver)

5-1-5. CABINET (FROMT) SECTION-3

ns: not supplied

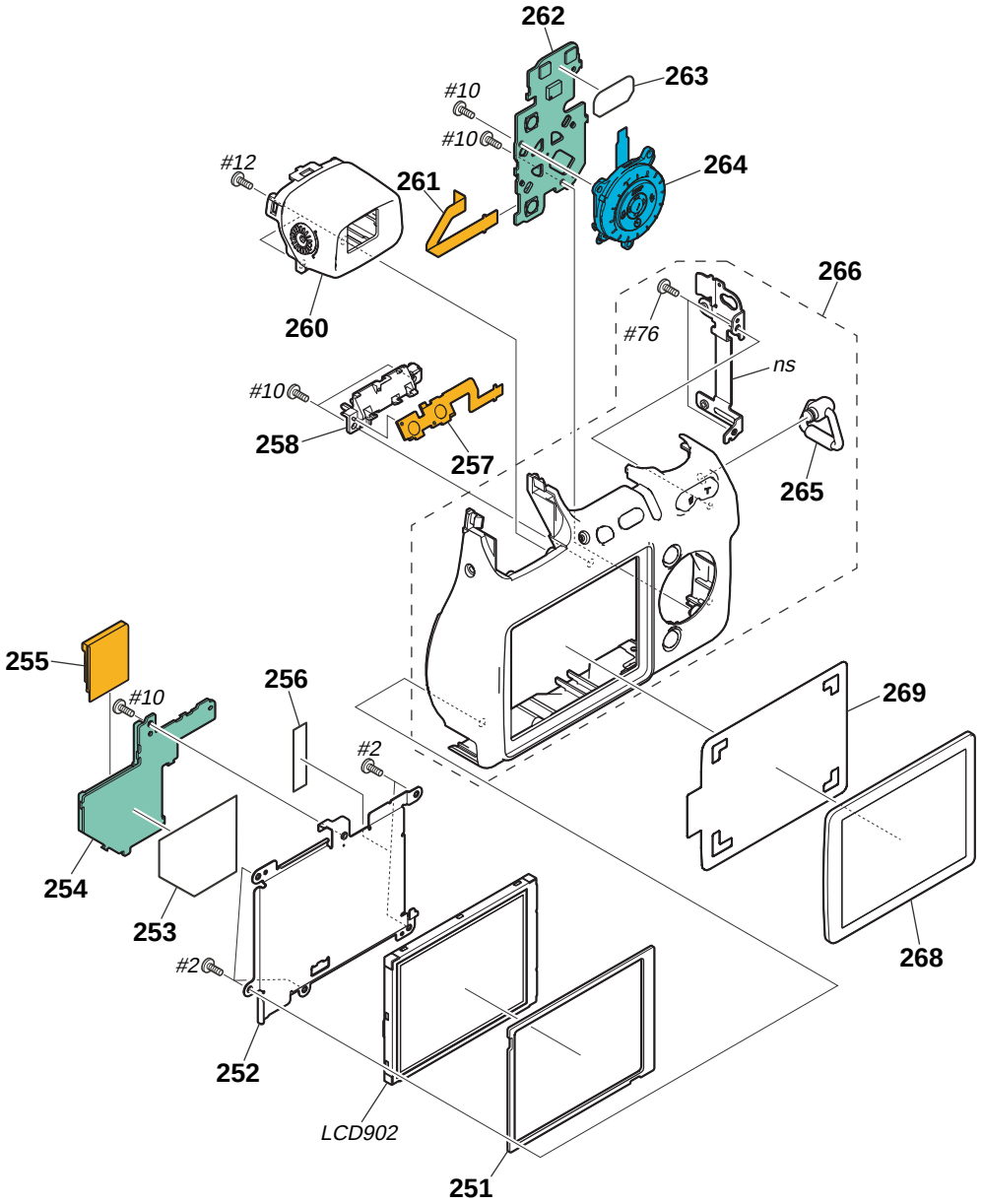


Ref. No.	Part No.	Description
201	3-106-766-01	SCREW, TRIPOD
* 202	3-106-767-01	FRAME, TRIPOD
* 203	3-106-770-01	CUSHION, SP
* 204	3-106-769-01	HOLDER, SP
205	3-106-615-01	BRACKET (350), STRAP
206	X-2177-461-1	RELEASE ASSY (SILVER)
206	X-2177-462-1	RELEASE ASSY (BLACK)
207	X-2177-463-1	CABINET (FRONT) ASSY (350) (SILVER) (H7)
207	X-2177-464-1	CABINET (FRONT) ASSY (350B) (BLACK) (H7)
207	X-2177-465-1	CABINET (FRONT) ASSY (450) (SILVER) (H9)
207	X-2177-466-1	CABINET (FRONT) ASSY (450B) (BLACK) (H9)
208	3-106-768-01	RING, LENS (SILVER)
208	3-106-768-11	RING, LENS (BLACK)

Ref. No.	Part No.	Description
209	X-2177-457-1	DIAL ASSY, MODE (SILVER)
209	X-2177-458-1	DIAL ASSY, MODE (BLACK)
210	3-106-679-01	HOLDER, MICROPHONE
211	A-1256-815-A	PW-134 BOARD, COMPLETE (SERVICE) (H7)
211	A-1256-816-A	PW-134 BOARD, COMPLETE (SERVICE) (H9)
* 213	3-106-677-01	BASE, RL
MIC901	1-542-728-11	MICROPHONE
SP901	1-825-262-71	LOUD SPEAKER (1.6CM)
#10	2-599-475-31	SCREW (M1.7) (Silver)
#12	3-080-204-21	SCREW, TAPPING, P2 (Black)
#75	2-666-551-01	SCREW, TAPPING, P2 (Silver)

5-1-6. CABINET (REAR) SECTION : DSC-H7

ns: not supplied

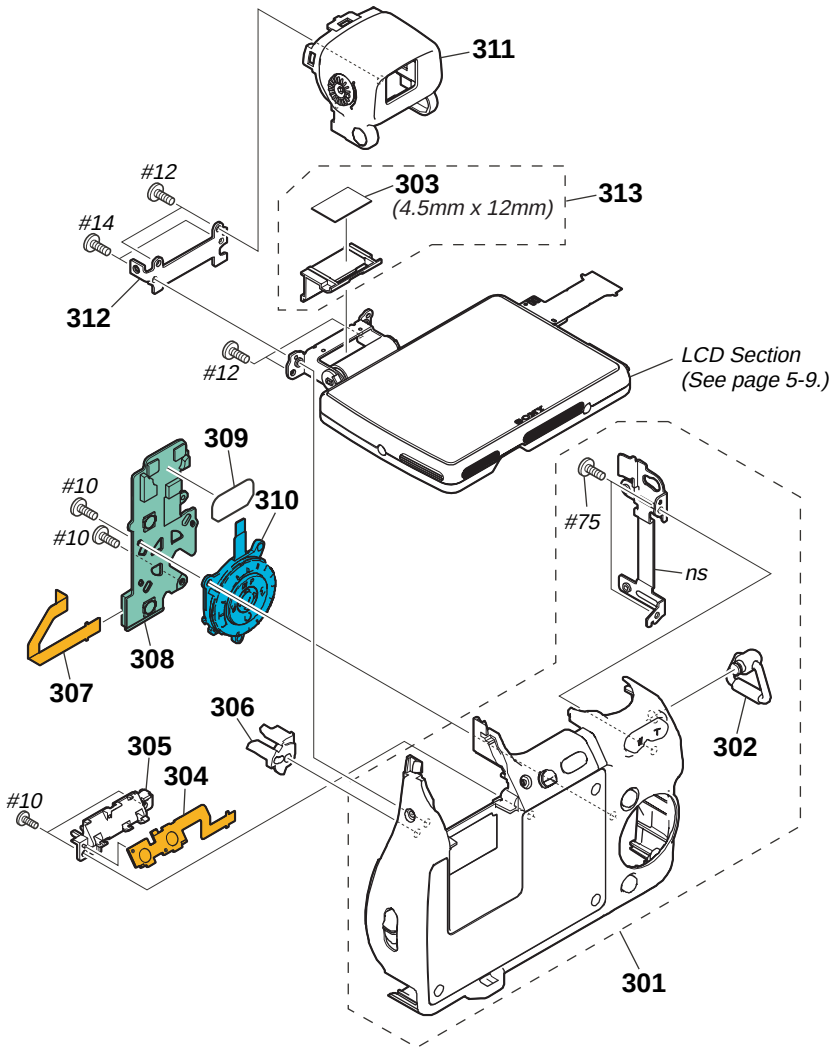


Ref. No.	Part No.	Description
251	3-106-736-01	CUSHION (350), LCD (H7)
252	3-106-735-01	FRAME (350), LCD (H7)
* 253	3-106-739-01	SHEET (350), INSULATING (H7)
254	A-1251-445-A	CK-180 BOARD, COMPLETE (H7)
255	A-1251-453-A	CK-181 BOARD, COMPLETE (H7)
* 256	3-215-730-01	TAPE (1335) (H7)
257	1-871-937-11	PY-002 FLEXIBLE BOARD
* 258	3-106-737-01	RETAINER, FL
260	X-2177-445-1	EYE CUP ASSY (350) (SILVER) (H7)
260	X-2177-446-1	EYE CUP ASSY (350B) (BLACK) (H7)
261	1-872-388-11	SW-504 FLEXIBLE BOARD
262	A-1251-446-A	SW-500 BOARD, COMPLETE (H7)
* 263	3-106-738-01	SHEET, MUFFLE
264	1-480-173-11	SWITCH BLOCK, CONTROL (SW60350) (SILVER)

Ref. No.	Part No.	Description
264	1-480-173-21	SWITCH BLOCK, CONTROL (SW60350) (BLACK)
* 265	3-106-615-01	BRACKET (350), STRAP
266	X-2177-449-1	CABINET (REAR) ASSY (350) (SILVER) (H7)
266	X-2177-450-1	CABINET (REAR) ASSY (350B) (BLACK) (H7)
* 268	3-106-775-01	WINDOW (350), LCD (H7)
269	3-106-614-01	SHEET (350), WINDOW ADHESIVE (H7)
* LCD902	1-802-379-21	LCDMODULE(LQ025A3DD01R) (H7)
#2	2-635-562-31	SCREW (M1.7) (Black)
#10	2-599-475-31	SCREW (M1.7) (Silver)
#12	3-080-204-21	SCREW, TAPPING, P2 (Black)
#76	2-666-551-11	SCREW, TAPPING, P2 (Silver)

5-1-7. CABINET (REAR) SECTION : DSC-H9

ns: not supplied

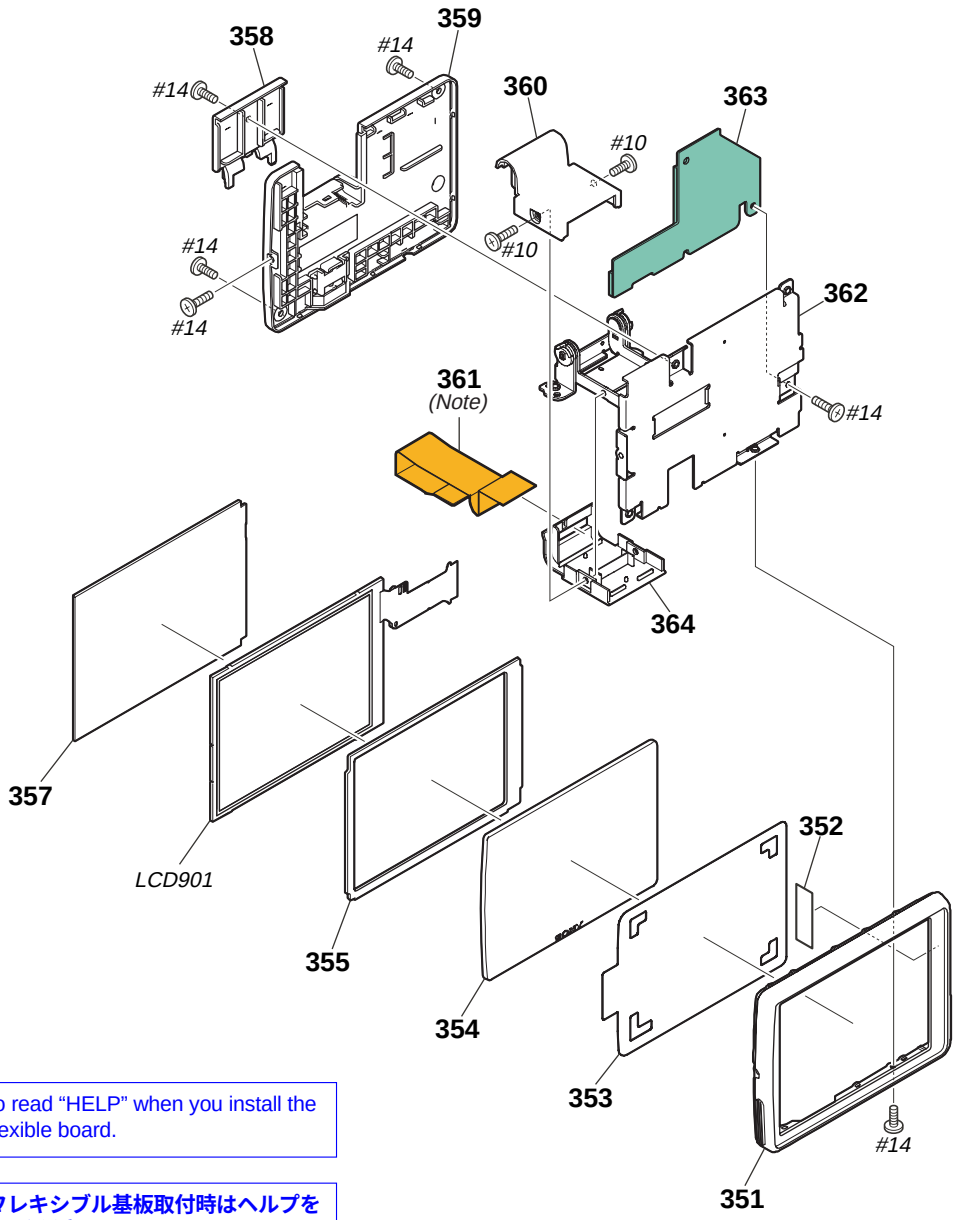


CAUTION: 303番は、接着紙(2-649-300-01)を切って使用。

CAUTION:
For the part of 303, cut SHEET, ADHESIVE(2-649-300-01) into the desired length and use it.

Ref. No.	Part No.	Description
301	X-2177-451-1	CABINET (REAR) ASSY (450) (SILVER) (H9)
301	X-2177-452-1	CABINET (REAR) ASSY (450B) (BLACK) (H9)
302	3-106-615-01	BRACKET (350), STRAP
303	CAUTION	SHEET, ADHESIVE
304	1-871-937-11	PY-002 FLEXIBLE BOARD
305	3-106-737-01	RETAINER, FL
306	3-106-742-01	ARM (UPPER), NS (H9)
307	1-872-388-11	SW-504 FLEXIBLE BOARD
308	A-1251-456-A	SW-499 BOARD, COMPLETE (H9)
309	3-106-738-01	SHEET, MUFFLE
310	1-480-173-11	SWITCH BLOCK, CONTROL (SW60350) (SILVER) (H9)
310	1-480-173-21	SWITCH BLOCK, CONTROL (SW60350) (BLACK) (H9)
311	X-2177-447-1	EYE CUP ASSY (450) (SILVER) (H9)
311	X-2177-448-1	EYE CUP ASSY (450B) (BLACK) (H9)
* 312	3-106-741-01	SHEET METAL (450), DRIVING (H9)
313	X-2178-450-1	BLIND ASSY (B), CABINET (REAR) (BLACK) (H9)
313	X-2178-452-1	BLIND ASSY, CABINET (REAR) (SILVER) (H9)
#10	2-599-475-31	SCREW (M1.7) (Silver)
#12	3-080-204-21	SCREW, TAPPING, P2 (Black)
#14	2-599-475-11	SCREW (M1.7) (Silver)
#75	2-666-551-01	SCREW, TAPPING, P2 (Silver)

5-1-8. LCD SECTION : DSC-H9



Note : Be sure to read “HELP” when you install the CK-182 flexible board.

Note : CK-182フレキシブル基板取付時はヘルプを必ずお読みください。

Ref. No.	Part No.	Description
351	3-106-586-01	CABINET (M), P (SILVER) (H9)
351	3-106-586-11	CABINET (M), P (BLACK) (H9)
* 352	3-106-605-01	SHEET, FLEXIBLE PROTECTION (H9)
353	3-106-587-01	SHEET, LCD WINDOW ADHESIVE (H9)
354	3-106-781-01	WINDOW, LCD (H9)
355	3-106-604-01	CUSHION, LCD (H9)
357	1-480-023-11	BLOCK, LIGHT GUIDE PLATE (3.0) (H9)
358	3-106-603-11	BLIND, HINGE (BLACK) (H9)
359	X-2177-441-1	CABINET (C) ASSY (B), P (BLACK) (H9)
360	3-106-602-11	COVER (M), HINGE (BLACK) (H9)

Ref. No.	Part No.	Description
360	3-106-602-01	COVER (M), HINGE (SILVER) (H9
361	A-1251-460-A	CK-182 BOARD, COMPLETE (H9)
362	X-2177-444-1	HINGE ASSY (H9)
363	A-1251-455-A	CK-179 BOARD, COMPLETE (H9)
364	3-106-601-01	COVER (C), HINGE (SILVER) (H9)
364	3-106-601-11	COVER (C), HINGE (BLACK) (H9)
LCD901	A-1257-852-A	SERVICE, LCD BLOCK ASSY (H9)
#10	2-599-475-31	SCREW (M1.7) (Silver)
#14	2-599-475-11	SCREW (M1.7) (Silver)

5-2. ELECTRICAL PARTS LIST

Ref. No.	Part No.	Description			
	(Not supplied)	CD-703 FLEXIBLE BOARD			
		**********			
(CD-703 board and IC003 are not supplied, but this is included in CCD BLOCK ASSY.)					
		< CAPACITOR >			
C001	1-164-943-81	CERAMIC CHIP	0.01UF	10%	16V
C003	1-100-505-11	CERAMIC CHIP	0.1UF	20%	16V
C005	1-125-777-11	CERAMIC CHIP	0.1UF	10%	10V
C006	1-107-826-11	CERAMIC CHIP	0.1UF	10%	16V
C007	1-164-943-81	CERAMIC CHIP	0.01UF	10%	16V
C008	1-164-943-81	CERAMIC CHIP	0.01UF	10%	16V
C009	1-100-505-11	CERAMIC CHIP	0.1UF	20%	16V
C010	1-164-943-81	CERAMIC CHIP	0.01UF	10%	16V
		< IC >			
IC003	(Not supplied)	IC ICX636LQP-13			
IC004	8-753-275-39	IC CXA3741UR-T9			
		< RESISTOR >			
R003	1-218-985-11	RES-CHIP	470K	5%	1/16W
R006	1-218-990-81	CONDUCTOR, CHIP (1005)			
R007	1-218-986-11	RES-CHIP	560K	5%	1/16W
R008	1-220-212-11	RES-CHIP	300K	5%	1/16W
R009	1-218-982-11	RES-CHIP	270K	5%	1/16W
	A-1251-455-A	CK-179 BOARD, COMPLETE (H9)			
		**********			
		< CAPACITOR >			
C001	1-165-908-11	CERAMIC CHIP	1UF	10%	10V
C002	1-165-908-11	CERAMIC CHIP	1UF	10%	10V
C003	1-119-923-11	CERAMIC CHIP	0.047UF	10%	10V
C004	1-125-891-11	CERAMIC CHIP	0.47UF	10%	10V
C005	1-165-908-11	CERAMIC CHIP	1UF	10%	10V
C006	1-125-777-11	CERAMIC CHIP	0.1UF	10%	10V
C007	1-165-908-11	CERAMIC CHIP	1UF	10%	10V
C008	1-112-300-91	CERAMIC CHIP	4.7UF	10%	10V
C009	1-100-966-91	CERAMIC CHIP	4.7UF	10%	10V
C010	1-165-908-11	CERAMIC CHIP	1UF	10%	10V
C011	1-165-989-11	CERAMIC CHIP	10UF	10%	6.3V
C012	1-100-966-91	CERAMIC CHIP	10UF	20%	10V
C014	1-125-777-11	CERAMIC CHIP	0.1UF	10%	10V
		< CONNECTOR >			
* CN001	1-821-248-11	CONNECTOR, FPC (ZIF) 39P			
* CN002	1-816-959-51	FFC/FPC CONNECTOR (ZIF) 28P			
		< COIL >			
L001	1-400-588-11	INDUCTOR, CHIP 10UH			(2012)
L002	1-400-588-11	INDUCTOR, CHIP 10UH			(2012)
		< RESISTOR >			
R004	1-218-946-11	RES-CHIP	270	5%	1/16W
R005	1-218-946-11	RES-CHIP	270	5%	1/16W

Ref. No.	Part No.	Description			
	A-1251-445-A	CK-180 BOARD, COMPLETE (H7)			
		**********			
		< CAPACITOR >			
C002	1-112-298-91	CERAMIC CHIP	1UF	10%	16V
C003	1-112-298-91	CERAMIC CHIP	1UF	10%	16V
C004	1-112-298-91	CERAMIC CHIP	1UF	10%	16V
C005	1-112-298-91	CERAMIC CHIP	1UF	10%	16V
C006	1-112-298-91	CERAMIC CHIP	1UF	10%	16V
C007	1-100-670-11	CERAMIC CHIP	4.7UF	20%	16V
C008	1-112-298-91	CERAMIC CHIP	1UF	10%	16V
C010	1-100-670-11	CERAMIC CHIP	4.7UF	20%	16V
C011	1-112-298-91	CERAMIC CHIP	1UF	10%	16V
C012	1-100-966-91	CERAMIC CHIP	10uF	20%	10V
C013	1-100-591-91	CERAMIC CHIP	1UF	10%	25V
C015	1-165-989-11	CERAMIC CHIP	10UF	10%	6.3V
C016	1-165-884-91	CERAMIC CHIP	2.2uF	10%	6.3V
		< CONNECTOR >			
* CN001	1-817-544-71	CONNECTOR, FPC (ZIF) 39P			
* CN002	1-816-959-51	FFC/FPC CONNECTOR (ZIF) 28P			
		< DIODE >			
D003	6-500-813-01	DIODE MA2SD32008S0			
		< COIL >			
L002	1-400-588-11	INDUCTOR	10UH		
		< RESISTOR >			
R002	1-218-965-11	RES, CHIP	10K	5%	1/16W
R004	1-218-989-11	RES, CHIP	1M	5%	1/16W
	A-1251-453-A	CK-181 BOARD, COMPLETE (H7)			
		**********			
		< CONNECTOR >			
CN001	1-778-596-21	CONNECTOR, BOARD TO BOARD 30P			
	A-1251-460-A	CK-182 BOARD, COMPLETE (H9)			
		**********			
		< CONNECTOR >			
CN001	1-778-596-21	CONNECTOR, BOARD TO BOARD 30P			
	1-871-941-11	DC-107 FLEXIBLE BOARD			
		**********			
		< JACK >			
⚠J001	1-817-331-11	DC JACK 5P (DC IN)			

Electrical parts list of DD-272 board are not shown.
Pages 5-11 to 5-12 is not shown.

• Refer to page 5-1 for mark ⚠.

Note: Be sure to read “Precautions for Replacement of Imager” on page 4-2 when changing the imager.

Ref. No.	Part No.	Description
	1-871-952-11	DD-273 FLEXIBLE BOARD
		**********

⚠	A-1251-450-A	JK-338 BOARD, COMPLETE	
		**********	
		< CONNECTOR >	
	CN001	(Not supplied)	CONNECTOR, MULTIPLE (SOCKET)
		< LINE FILTER >	
	LF001	1-456-583-11	COMMON MODE CHOKE COIL

		A-1251-448-A	MS-364 BOARD, COMPLETE (H7)			
			**********			
			< CAPACITOR >			
	C301	1-119-750-11	TANTAL. CHIP	22uF	20%	6.3V
	C302	1-125-777-11	CERAMIC CHIP	0.1UF	10%	10V
	C303	1-125-777-11	CERAMIC CHIP	0.1UF	10%	10V
	C304	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V
			< CONNECTOR >			
	CN301	1-816-646-51	FFC/CONNECTOR, FPC (LIF) 16P			
*	CN302	1-819-990-21	MEMORY STICK DUO CONNECTOR 10P			
			< DIODE >			
	D301	6-501-216-01	DIODE CL-271HR-C-TS (ACCESS)			
	D302	6-500-813-01	DIODE MA2SD32008S0			
			< FERRITE BEAD >			
	FB305	1-469-580-11	INDUCTOR, FERRITE BEAD (1005)			
			< TRANSISTOR >			
	Q301	6-550-576-01	TRANSISTOR SSM6E01TU			
			< RESISTOR >			
	R301	1-218-947-11	RES-CHIP	330	5%	1/16W
	R302	1-218-990-81	CONDUCTOR, CHIP		0	
	R303	1-218-957-11	RES-CHIP	2.2K	5%	1/16W
	R304	1-218-985-11	RES-CHIP	470K	5%	1/16W
	R305	1-218-959-11	RES-CHIP	3.3K	5%	1/16W
	R306	1-218-953-11	RES-CHIP	1K	5%	1/16W
	R307	1-218-990-81	CONDUCTOR, CHIP		0	
	R308	1-218-940-11	RES-CHIP	82	5%	1/16W
	R309	1-218-940-11	RES-CHIP	82	5%	1/16W
	R310	1-218-940-11	RES-CHIP	82	5%	1/16W
	R311	1-218-940-11	RES-CHIP	82	5%	1/16W
	R312	1-218-990-81	CONDUCTOR, CHIP		0	
	R313	1-218-938-11	RES-CHIP	56	5%	1/16W
	R314	1-469-580-11	FERRITE	0UH		
	R315	1-469-580-11	FERRITE	0UH		
	R316	1-469-580-11	FERRITE	0UH		
	R317	1-469-580-11	FERRITE	0UH		
	R318	1-218-939-11	RES-CHIP	68	5%	1/16W

Ref. No.	Part No.	Description
	1-871-944-11	MS-365 FLEXiBLE BOARD
		**********

		A-1251-458-A	MS-366 BOARD, COMPLETE (H9)			
			**********			
			< CAPACITOR >			
	C301	1-119-750-11	TANTAL. CHIP	22uF	20%	6.3V
	C302	1-125-777-11	CERAMIC CHIP	0.1UF	10%	10V
	C303	1-125-777-11	CERAMIC CHIP	0.1UF	10%	10V
	C304	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V
			< CONNECTOR >			
	CN301	1-816-646-51	FFC/CONNECTOR, FPC (LIF) 16P			
*	CN302	1-819-990-21	MEMORY STICK DUO CONNECTOR 10P			
			< DIODE >			
	D301	6-501-216-01	DIODE CL-271HR-C-TS (ACCESS)			
	D302	6-500-813-01	DIODE MA2SD32008S0			
			< FERRITE BEAD >			
	FB305	1-469-580-21	INDUCTOR, FERRITE BEAD (1005)			
			< TRANSISTOR >			
	Q301	6-550-576-01	TRANSISTOR SSM6E01TU			
			< RESISTOR >			
	R301	1-218-947-11	RES-CHIP	330	5%	1/16W
	R302	1-218-990-81	CONDUCTOR, CHIP		0	
	R303	1-218-957-11	RES-CHIP	2.2K	5%	1/16W
	R304	1-218-985-11	RES-CHIP	470K	5%	1/16W
	R305	1-218-959-11	RES-CHIP	3.3K	5%	1/16W
	R306	1-218-953-11	RES-CHIP	1K	5%	1/16W
	R307	1-218-990-81	CONDUCTOR, CHIP		0	
	R308	1-218-940-11	RES-CHIP	82	5%	1/16W
	R309	1-218-940-11	RES-CHIP	82	5%	1/16W
	R310	1-218-940-11	RES-CHIP	82	5%	1/16W
	R311	1-218-940-11	RES-CHIP	82	5%	1/16W
	R312	1-218-990-81	CONDUCTOR, CHIP		0	
	R313	1-218-938-11	RES-CHIP	56	5%	1/16W
	R314	1-469-580-21	FERRITE	0UH		
	R315	1-469-580-21	FERRITE	0UH		
	R316	1-469-580-21	FERRITE	0UH		
	R317	1-469-580-21	FERRITE	0UH		
	R318	1-218-939-11	RES-CHIP	68	5%	1/16W

	A-1251-447-A	PL-046 BOARD, COMPLETE (H7)	
		**********	
(RY201 is not included in the PL-046 complete board.)			
		< CAPACITOR >	
C201	1-165-908-11	CERAMIC	1uF 10% 10V
		< CONNECTOR >	
* CN201	1-817-554-51	CONNECTOR, FFC/FPC 6P	

• Refer to page 5-1 for mark ⚠.

Ref. No.	Part No.	Description			
		< DIODE >			
D201	8-719-056-23	DIODE MA2S111-(K8).SO			
		< PLUNGER >			
⚠RY201	1-455-038-11	SOLENOID, PLUNGER (Note)			
		< SWITCH >			
S201	1-786-179-31	SWITCH, PUSH (1KEY) (STRB-POPUP)			

	A-1251-457-A	PL-047 BOARD, COMPLETE (H9)			
		**********			
(RY201 is not included in the PL-047 complete board.)					
		< CAPACITOR >			
C201	1-165-908-11	CERAMIC	1uF	10%	10V
		< CONNECTOR >			
* CN201	1-817-554-51	CONNECTOR, FFC/FPC 6P			
		< DIODE >			
D201	8-719-056-23	DIODE MA2S111-(K8).SO			
		< PLUNGER >			
⚠RY201	1-455-038-11	SOLENOID, PLUNGER (Note)			
		< SWITCH >			
S201	1-786-179-31	SWITCH, PUSH (1KEY) (STRB-POPUP)			

	A-1256-815-A	PW-134 BOARD, COMPLETE (SERVICE) (H7)			
	A-1256-816-A	PW-134 BOARD, COMPLETE (SERVICE) (H9)			
		**********			
		< CAPACITOR >			
C001	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V
		< DIODE >			
D001	6-500-512-01	DIODE CL-330IRS-X-TU (NIGHTSHOT) (H9)			
D002	6-501-524-01	DIODE DOR5099 (AF ILLUMINATOR/SELF-TIMER)			
D003	6-501-030-01	DIODE SML-412MWT86 (POWER)			
		< IC >			
IC001	6-600-163-01	IC RS-770			
		< RESISTOR >			
R001	1-216-825-11	METAL CHIP	2.2K	5%	1/10W (H9)
R014	1-216-832-11	METAL CHIP	8.2K	5%	1/10W
R015	1-216-832-11	METAL CHIP	8.2K	5%	1/10W
R016	1-216-206-00	RES-CHIP	2.2K	5%	1/8W
R017	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R018	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R019	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R020	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R021	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R022	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R023	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
		< SWITCH >			
S001	1-786-157-11	TACTILE SWITCH (POWER)			
S003	1-786-157-11	TACTILE SWITCH (●) (H9)			
S004	1-786-157-11	TACTILE SWITCH (BRK) (H9)			
S005	1-798-036-21	ROTARY SWITCH (MODE DIAL)			
S006	1-786-602-11	SWITCH, TACTILE (SHUTTER)			

	1-871-937-11	PY-002 FLEXIBLE BOARD			
		**********			
(S001 and S002 are not supplied. But they are included in te PY-002 flexible board.)					
		< SWITCH >			
S001	(Not supplied)	SWITCH (▶) (Note)			
S002	(Not supplied)	SWITCH (FINDER/LCD) (Note)			

⚠	A-1251-449-A	ST-166 BOARD, COMPLETE			
		**********			
(FL901 is not included in the ST-166 complete board.)					
		< CAPACITOR >			
* C002	1-112-832-21	CERAMIC CHIP	0.033uF	10%	250V
		< FLASH UNIT >			
⚠FL901	1-481-062-11	FLASH UNIT (Note)			
		< COIL >			
⚠L001	1-456-193-11	COIL, TRIGGER			
		< RESISTOR >			
R001	1-216-121-11	RES-CHIP	1M	5%	1/10W

	A-1251-456-A	SW-499 BOARD, COMPLETE (H9)			
		**********			
		< CONNECTOR >			
CN101	1-816-684-51	CONNECTOR, FFC/FPC (ZIF) 8P			
* CN102	1-817-554-51	CONNECTOR, FFC/FPC 6P			
* CN103	1-817-554-51	CONNECTOR, FFC/FPC 6P			
		< DIODE >			
D101	6-500-776-01	DIODE MAZW068H0LS0			
D104	8-719-056-54	DIODE MAZS068008S0			
		< RESISTOR >			
R101	1-218-964-11	RES-CHIP	8.2K	5%	1/16W
R102	1-218-957-11	RES-CHIP	2.2K	5%	1/16W
R103	1-218-957-11	RES-CHIP	2.2K	5%	1/16W
R104	1-218-959-11	RES-CHIP	3.3K	5%	1/16W
R105	1-218-961-11	RES-CHIP	4.7K	5%	1/16W

• Refer to page 5-1 for mark ⚠.

Ref. No.	Part No.	Description			
		< SWITCH >			
S101	1-786-819-22	TACTILE SWITCH (ZOOM T)			
S102	1-786-819-22	TACTILE SWITCH (ZOOM W)			
S103	1-786-157-11	TACTILE SWITCH (MENU)			
S104	1-786-157-11	TACTILE SWITCH (HOME)			
	A-1251-446-A	SW-500 BOARD, COMPLETE (H7)			
		**********			
		< CONNECTOR >			
CN101	1-816-684-51	CONNECTOR, FFC/FPC (ZIF) 8P			
* CN102	1-817-554-51	CONNECTOR, FFC/FPC 6P			
* CN103	1-817-554-51	CONNECTOR, FFC/FPC 6P			
		< DIODE >			
D101	6-500-776-01	DIODE MAZW068H0LS0			
D104	8-719-056-54	DIODE MAZS068008S0			
		< RESISTOR >			
R101	1-218-964-11	RES-CHIP	8.2K	5%	1/16W
R102	1-218-957-11	RES-CHIP	2.2K	5%	1/16W
R103	1-218-957-11	RES-CHIP	2.2K	5%	1/16W
R104	1-218-959-11	RES-CHIP	3.3K	5%	1/16W
R105	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
		< SWITCH >			
S101	1-786-819-22	TACTILE SWITCH (ZOOM T)			
S102	1-786-819-22	TACTILE SWITCH (ZOOM W)			
S103	1-786-157-11	TACTILE SWITCH (MENU)			
S104	1-786-157-11	TACTILE SWITCH (HOME)			
	1-872-388-11	SW-504 FLEXIBLE BOARD			
		**********			

Electrical parts list of SY-177 board are not shown.
Pages 5-16 to 5-19 is not shown.

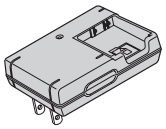
Note:

- Items marked "*" are not stocked since they are seldom required for routine service.
  Some delay should be anticipated when ordering these items.
- The parts numbers of such as a cabinet are also appeared in this section.
  Refer to the parts number mentioned below the name of parts to order.
- Abbreviation

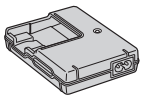
AR : Argentine model	CH : Chinese model	HK : Hong Kong model	KR : Korea model
AUS: Australian model	CND: Canadian model	J : Japanese model	NE : North European model
BR : Brazilian model	EE : East European model	JE : Tourist model	TW : Taiwan model

Checking supplied accessories.

Note 1: This item is supplied with the unit as an accessory, but is not prepared as a service part.



Battery charger
(BC-CSG/BC-CSGB/BC-CSGC)
⚠ 1-479-791-12 (J)
⚠ 1-479-791-22 (US, CND)



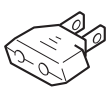
⚠ 1-479-791-32 (EXCEPT US, CND, J)

Power cord (mains lead)
(except US, CND and J)
⚠ 1-827-945-61 (AUS)
⚠ 1-832-121-31 (CH)
⚠ 1-827-826-41 (AEP, E)
⚠ 1-828-050-31 (JE)
⚠ 1-823-947-71 (KR)
⚠ 1-832-106-31 (AR)
⚠ 1-832-169-31 (UK, HK)

Lens cap
X-2177-459-1

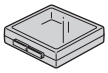
Lens hood
3-106-732-01

FIXED RING
3-106-734-01

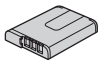


Conversion adaptor
⚠1-569-008-12(E)

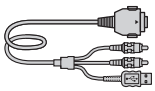
Conversion adaptor
⚠1-569-007-12(JE)



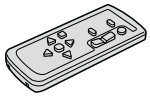
Battery case
(Note 1)



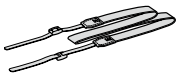
Rechargeable battery pack (NP-BG1)
(Note 1)



USB,A/V cable for multi-use terminal
1-829-866-51



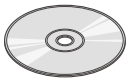
Remote Control (RMT-835)
1-478-655-61



Shoulder strap
2-629-892-11

Adaptor ring
3-106-733-01

Lens cap strap
3-979-194-31



CD-ROM
(Cyber-shot application software/
"Cyber-shot Handbook"/
"Cyber-shot Step-up Guide)
3-196-618-01 (EXCEPT US, J)
3-196-619-01 (US)
3-209-351-01 (J)

Instruction Manual
3-196-623-01 (JAPANESE) (J)
3-196-623-11 (ENGLISH)
(CND, AEP, E, UK, HK, AUS, JE)
3-196-623-21 (FRENCH, ITALIAN) (CND, AEP)
3-196-623-31 (SPANISH, PORTUGUESE) (AEP, E, AR, JE)
3-196-623-41 (GERMAN, DUTCH) (AEP)
3-196-623-51 (TRADITIONAL CHINESE,
SIMPLIFIED CHINESE) (E, HK, CH, JE)
3-196-623-61 (RUSSIAN) (AEP)
3-196-623-71 (ARABIC, PERSIAN) (E)
3-196-623-81 (KOREAN) (KR, JE)
3-196-623-91 (POLISH, CZECH) (AEP)
3-196-624-11 (HUNGARIAN, SLOVAK) (AEP)
3-196-624-21 (SWEDISH, FINNISH) (AEP)
3-196-624-31 (NORWEGIAN, DANISH) (AEP)
3-196-624-41 (THAI, MALAY) (E)
3-196-624-51 (TURKISH, GREEK) (AEP)
3-196-624-61 (ENGLISH, SPANISH) (US)

Cyber-shot Handbook(PDF)

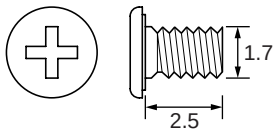
The CD-ROM supplied contains all of language version of the Instruction Manual in pdf (Cyber-shot Handbook.pdf) for printing.

Note: The printed matter is not supplied. If required, please order it with the part number below.

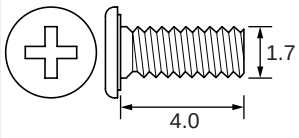
3-196-620-01 (JAPANESE)
3-196-620-11 (ENGLISH)
3-196-620-21 (FRENCH)
3-196-620-31 (ITALIAN)
3-196-620-41 (SPANISH)
3-196-620-51 (PORTUGUESE)
3-196-620-61 (GERMAN)
3-196-620-71 (DUTCH)
3-196-620-81 (TRADITIONAL CHINESE)
3-196-620-91 (SIMPLIFIED CHINESE)
3-196-621-11 (RUSSIAN)
3-196-621-21 (ARABIC)
3-196-621-31 (PERSIAN)
3-196-621-41 (KOREAN)
3-196-621-51 (POLISH)
3-196-621-61 (CZECH)
3-196-621-71 (HUNGARIAN)
3-196-621-81 (SLOVAK)
3-196-621-91 (SWEDISH)
3-196-622-11 (FINNISH)
3-196-622-21 (NORWEGIAN)
3-196-622-31 (DANISH)
3-196-622-41 (THAI)
3-196-622-51 (MALAY)
3-196-622-61 (TURKISH)
3-196-622-71 (GREEK)

HARDWARE LIST (1/4)

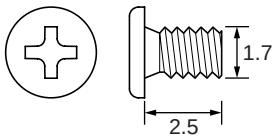
#1: M1.7 X 2.5
(Black)
2-635-562-11



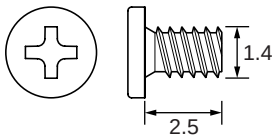
#2: M1.7 X 4.0
(Black)
2-635-562-31



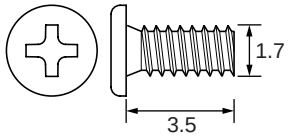
#3: M1.7 X 2.5
(Red)
2-660-401-01



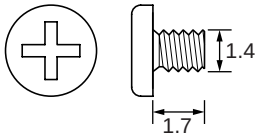
#4: M1.4 X 2.5 (Tapping)
(Dark Silver)
3-348-998-81



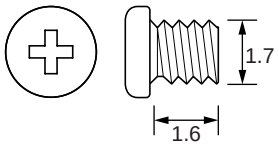
#5: M1.7 X 3.5 (Tapping)
(Black)
3-080-204-01



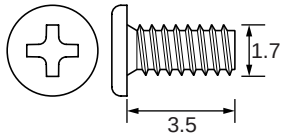
#6: M1.4 X 1.7
(Silver)
2-598-474-01



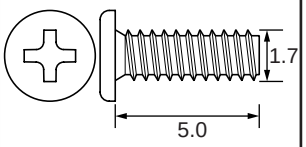
#7: M1.7 X 1.6
(Black)
7-627-552-18



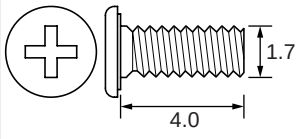
#8: M1.7 X 3.5 (Tapping)
(Silver)
3-078-890-01



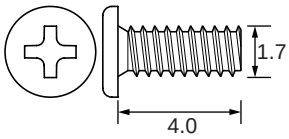
#9: M1.7 X 5.0 (Tapping)
(Silver)
3-078-890-21



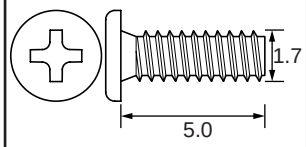
#10: M1.7 X 4.0
(Silver)
2-599-475-31



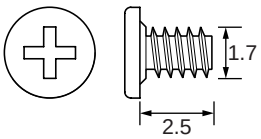
#11: M1.7 X 4.0 (Tapping)
(Silver)
3-078-890-11



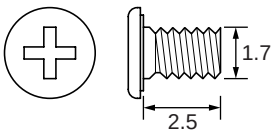
#12: M1.7 X 5.0 (Tapping)
(Black)
3-080-204-21



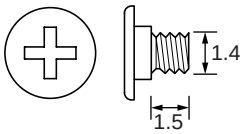
#13: M1.7 X 2.5 (Tapping)
(Silver)
3-085-397-01



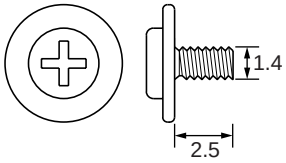
#14: M1.7 X 2.5
(Silver)
2-599-475-11



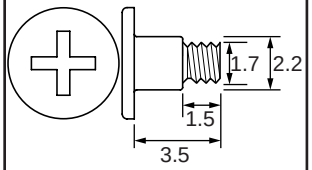
#15: M1.4 X 1.5
(Silver)
3-062-214-01



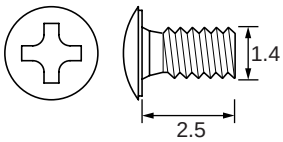
#16: M1.4 X 2.5
(Silver)
2-586-337-01



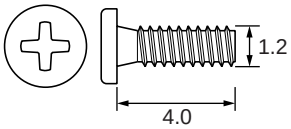
#17: M1.7 X 1.5
(Silver)
2-586-389-01



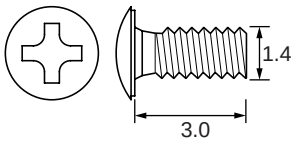
#18: M1.4 X 2.5
(Silver)
2-635-591-21



#19: M1.2 X 4.0 (Tapping)
(Red)
3-086-156-21

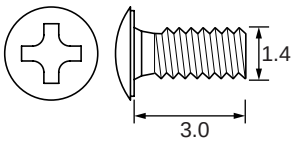


#20: M1.4 X 3.0
(Silver)
2-635-591-31

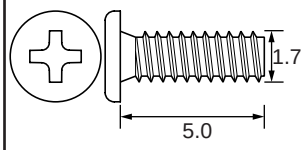


HARDWARE LIST (2/4)

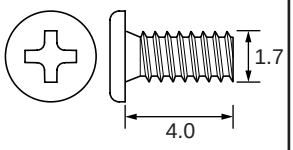
#21: M1.4 X 3.0
(Black)
2-662-396-21



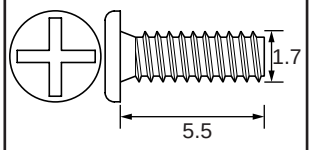
#22: M1.7 X 5.0 (Tapping)
(Silver)
3-083-261-01



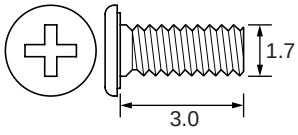
#23: M1.7 X 4.0 (Tapping)
(Black)
3-080-204-11



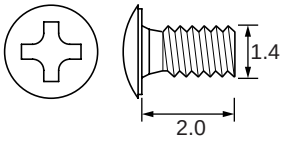
#24: B1.7 X 5.5 (Tapping)
(Black)
4-679-805-11



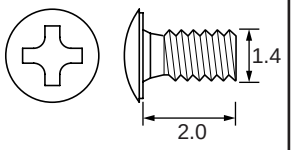
#25: M1.7 X 3.0
(Black)
2-635-562-21



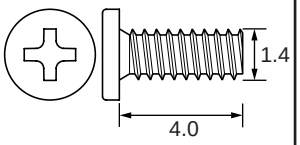
#26: M1.4 X 2.0
(Silver)
2-635-591-11



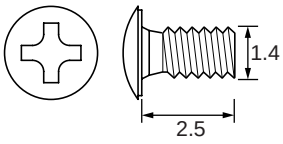
#27: M1.4 X 2.0
(Black)
2-662-396-11



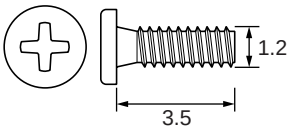
#28: M1.4 X 4.0 (Tapping)
(Dark Silver)
3-348-998-61



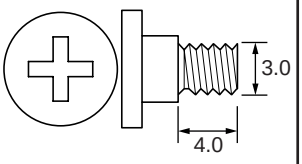
#29: M1.4 X 2.5
(Black)
2-662-396-01



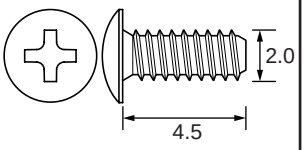
#30: M1.2 X 4.0 (Tapping)
(White)
3-086-156-11



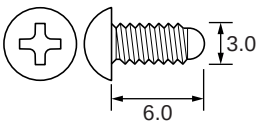
#31: M3.0 X 4.0
(Silver)
2-102-434-01



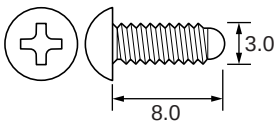
#32: M2.0 X 4.5 (Tapping)
(Silver)
2-102-498-01



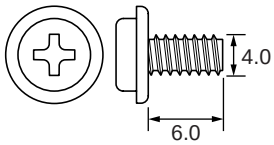
#33: M3.0 X 6.0
(Silver)
3-077-331-21



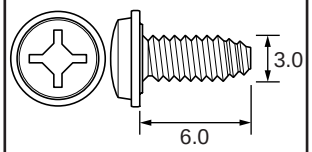
#34: M3.0 X 8.0
(Black)
3-077-331-41



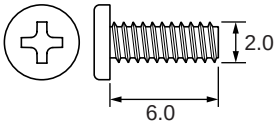
#35: M4.0 X 6.0 (Tapping)
(Silver)
3-975-291-02



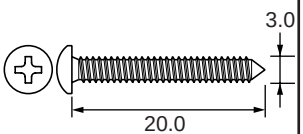
#36: M3.0 X 6.0
(Silver)
4-886-821-11



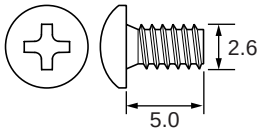
#37: M2.0 X 6.0 (Tapping)
(Black)
3-080-206-31



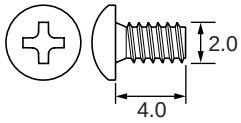
#38: M3.0 X 20.0 (Tapping)
(Silver)
7-685-651-79



#39: M2.6 X 5.0 (Tapping)
(Black)
7-685-791-09

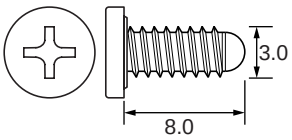


#40: M2.0 X 4.0 (Tapping)
(Silver)
7-685-851-04

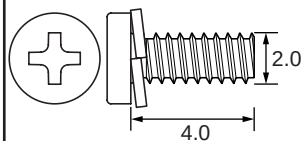


HARDWARE LIST (3/4)

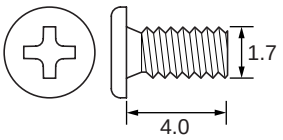
#41: M3.0 X 8.0 (Tapping)
(Silver)
3-065-748-01



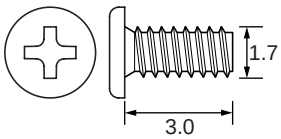
#42: M2.0 X 4.0 (Tapping)
(Silver)
7-628-253-00



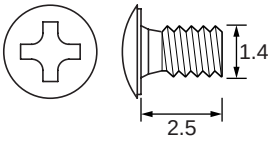
#43: M1.7 X 4.0
(Red)
2-660-401-31



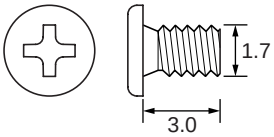
#44: M1.7 X 3.0 (Tapping)
(Silver)
3-078-890-61



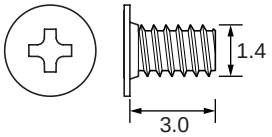
#45: M1.4 X 2.5
(Silver)
2-587-151-01



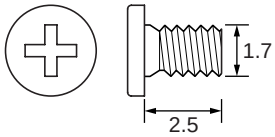
#46: M1.7 X 3.0
(Red)
2-660-401-11



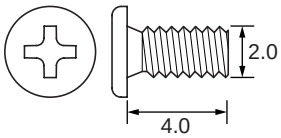
#47: M1.4 X 3.0 (Tapping)
(Silver)
2-665-774-01



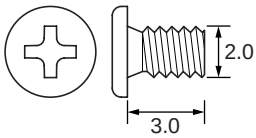
#48: M1.7 X 2.5
(Silver)
3-973-497-91



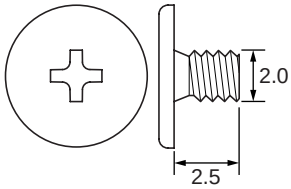
#49: M2.0 X 4.0
(Black)
2-630-005-31



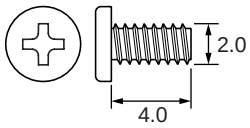
#50: M2.0 X 3.0
(Red)
2-891-494-11



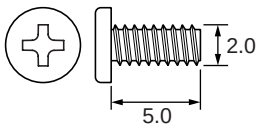
#51: M2.0 X 2.5
(Silver)
3-073-686-01



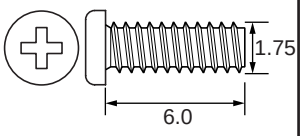
#52: M2.0 X 4.0 (Tapping)
(Black)
3-080-206-11



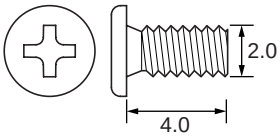
#53: M2.0 X 5.0 (Tapping)
(Black)
3-080-206-21



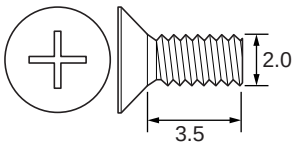
#54: M1.75 X 6.0 (Tapping)
(Black)
3-318-203-11



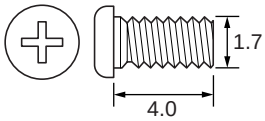
#55: M2.0 X 4.0
(Silver)
2-655-582-11



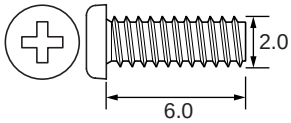
#56: M2.0 X 3.5
(Silver)
3-067-187-11



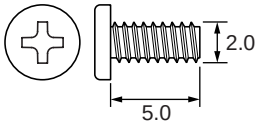
#57: M1.7 X 4.0
(Black)
7-627-852-18



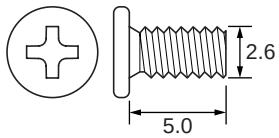
#58: M2.0 X 6.0 (Tapping)
(Silver)
3-719-408-11



#59: M2.0 X 5.0 (Tapping)
(Silver)
3-080-205-21

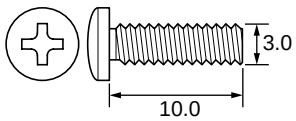


#60: M2.6 X 5.0
(Black)
3-061-062-11

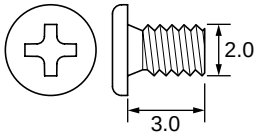


HARDWARE LIST (4/4)

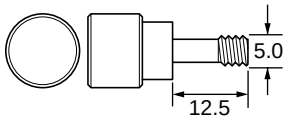
#61: M3.0 X 10.0
(Black)
7-682-549-09



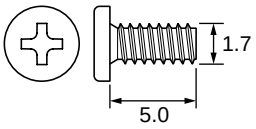
#62: M2.0 X 3.0
(Silver)
3-080-202-21



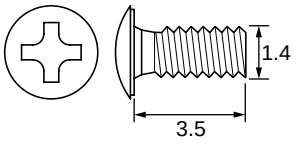
#63: M5.0 X 12.5
(Black)
3-060-811-21



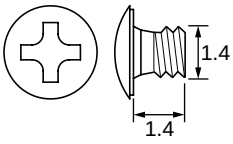
#64: M1.7 X 5.0 (Tapping)
(Silver)
2-666-551-21



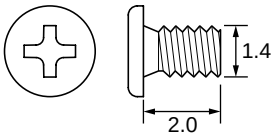
#65: M1.4 X 3.5
(Silver)
2-635-591-01



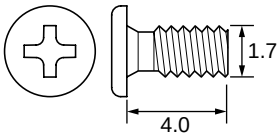
#66: M1.4 X 1.4
(Silver)
2-635-591-41



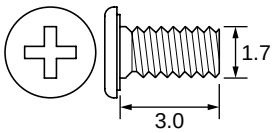
#67: M1.4 X 2.0
(Silver)
3-389-523-16



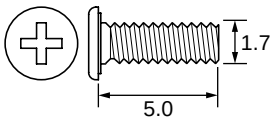
#68: M1.7 X 4.0
(Silver)
2-655-581-01



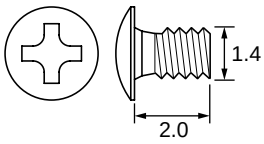
#69: M1.7 X 3.0
(Silver)
2-599-475-21



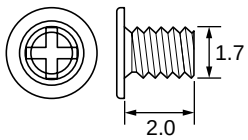
#70: M1.7 X 5.0
(Silver)
2-599-475-41



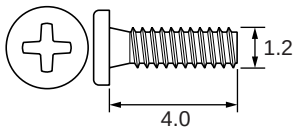
#71: M1.4 X 2.0
(Red)
3-208-537-01



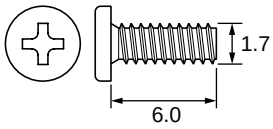
#72: M1.7 X 2.0
(Silver)
4-663-621-41



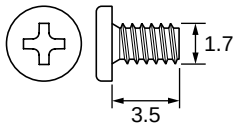
#73: M1.2 X 4.0 (Tapping)
(Black)
3-086-156-61



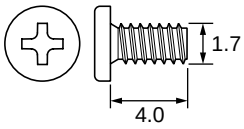
#74: M1.7 X 6.0 (Tapping)
(Silver)
2-666-551-31



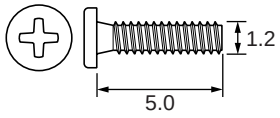
#75: M1.7 X 3.5 (Tapping)
(Silver)
2-666-551-01



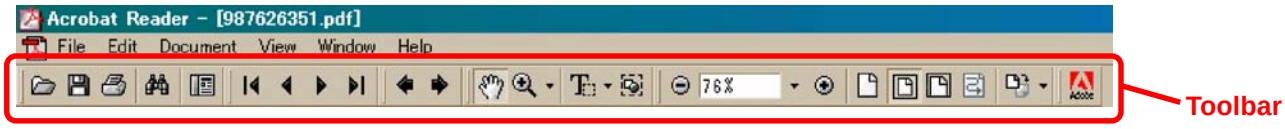
#76: M1.7 X 4.0 (Tapping)
(Silver)
2-666-551-11



#77: M1.2 X 5.0 (Tapping)
(Silver)
3-086-156-31



[Description of main button functions on toolbar of the Adobe Acrobat Reader Ver5.0 (for Windows)]



Printing a text

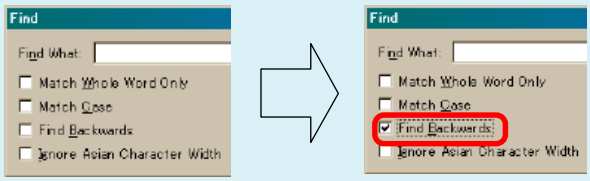
1. Click the Print button .
2. Specify a printer, print range, number of copies, and other options, and then click [OK].

Application of printing:
To set a range to be printed within a page, select the graphic selection tool and drag on the page to enclose a range to be printed, and then click the Print button.

Finding a text

1. Click the Find button .
2. Enter a character string to be found into a text box, and click the [Find]. (Specify the find options as necessary)

Application to the Service Manual:
To execute "find" from current page toward the previous pages, select the check box "Find Backward" and then click the "Find".



3. Open the find dialog box again, and click the [Find Again] and you can find the matched character strings displayed next. (Character strings entered previously are displayed as they are in the text box.)

Application to the Service Manual:
The parts on the drawing pages (block diagrams, circuit diagrams, printed circuit boards) and parts list pages in a text can be found using this find function. For example, find a Ref. No. of IC on the block diagram, and click the [Find Again] continuously, so that you can move to the Ref. No. of IC on the circuit diagram or printed circuit board diagram successively.
Note: The find function may not be applied to the Service Manual depending on the date of issue.

Switching a page

- To move to the first page, click the .
- To move to the last page, click the .
- To move to the previous page, click the .
- To move to the next page, click the .

Reversing the screens displayed once

- To reverse the previous screens (operation) one by one, click the .
- To advance the reversed screens (operation) one by one, click the .

Application to the Service Manual:
This function allows you to go and back between circuit diagram and printed circuit board diagram, and accordingly it will be convenient for the voltage check.

Moving with link

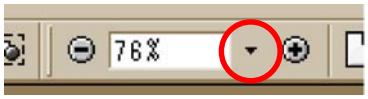
1. Select either palm tool , zoom tool , text selection tool , or graphic selection tool .
2. Place the pointer in the position in a text where the link exists (such as a button on cover and the table of contents page, or blue characters on the removal flowchart page or drawing page), and the pointer will change to the forefinger form .
3. Then, click the link. (You will go to the link destination.)

Moving with bookmark:
Click an item (text) on the bookmark pallet, and you can move to the link destination. Also, clicking can display the hidden items.
(To go back to original state, click)

Zooming or rotating the screen display

"Zoom in/out"

- Click the triangle button in the zoom control box to select the display magnification. Or, you may click or for zooming in or out.



"Rotate"

- Click rotate tool , and the page then rotates 90 degrees each.

Application to the Service Manual:
The printed circuit board diagram you see now can be changed to the same direction as the set.

Revision History

Ver.	Date	History	Contents	S.M. Rev. issued
1.0	2007.04	Official Release	—	—